Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{2}{3}x - \frac{7}{2}\right)\left(\frac{11}{8}x + \frac{17}{4}\right)$

2) $\left(\frac{29}{8}x + 1\right)\left(\frac{1}{4}x + \frac{24}{7}\right)$

3) $\left(\frac{11}{6}x + \frac{7}{4}\right)\left(\frac{4}{7}x - \frac{20}{7}\right)$

4) $\left(\frac{2}{3}b + \frac{1}{4}\right)\left(\frac{11}{7}b - \frac{1}{4}\right)$

5) $\left(\frac{1}{2}n + \frac{9}{2}\right)\left(\frac{11}{6}n - \frac{1}{5}\right)$

6) $\left(\frac{29}{6}n - \frac{11}{5}\right)\left(\frac{13}{6}n + \frac{9}{5}\right)$

7) $\left(2n - \frac{6}{5}\right)\left(\frac{21}{5}n - \frac{13}{8}\right)$

8) $\left(\frac{1}{3}k - \frac{23}{6}\right)\left(\frac{7}{4}k - 8\right)$

9) $\left(\frac{13}{8}x - \frac{11}{3}\right)\left(\frac{1}{2}x + \frac{12}{7}\right)$

10) $\left(\frac{29}{6}v - 3\right)\left(\frac{25}{7}v - \frac{3}{2}\right)$

11) $\left(\frac{1}{3}m - \frac{9}{5}\right)\left(\frac{9}{4}m - \frac{5}{3}\right)$

12) $\left(\frac{2}{3}v + \frac{11}{8}\right)\left(\frac{8}{3}v - 1\right)$

13) $\left(\frac{6}{5}p - \frac{9}{5}\right)\left(2p + \frac{1}{4}\right)$

14) $\left(8x + \frac{14}{3}\right)\left(\frac{3}{2}x - \frac{5}{3}\right)$

15) $\left(2n - \frac{11}{6}\right)\left(\frac{4}{3}n + \frac{5}{6}\right)$

16) $\left(\frac{13}{6}m + \frac{8}{7}\right)\left(\frac{6}{7}m + \frac{13}{3}\right)$

17) $\left(\frac{9}{2}n + \frac{13}{6}\right)\left(\frac{31}{8}n - \frac{2}{3}\right)$

18) $\left(2m + \frac{24}{5}\right)\left(\frac{1}{5}m - \frac{3}{2}\right)$

Algebra 1 Name_____

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Date_____ Period____

Find each product.

1) $\left(\frac{2}{3}x-\frac{7}{2}\right)\left(\frac{11}{8}x+\frac{17}{4}\right)$

$\frac{11}{12}x^2-\frac{95}{48}x-\frac{119}{8}$

2) $\left(\frac{29}{8}x+1\right)\left(\frac{1}{4}x+\frac{24}{7}\right)$

$\frac{29}{32}x^2+\frac{355}{28}x+\frac{24}{7}$

3) $\left(\frac{11}{6}x+\frac{7}{4}\right)\left(\frac{4}{7}x-\frac{20}{7}\right)$

$\frac{22}{21}x^2-\frac{89}{21}x-5$

4) $\left(\frac{2}{3}b+\frac{1}{4}\right)\left(\frac{11}{7}b-\frac{1}{4}\right)$

$\frac{22}{21}b^2+\frac{19}{84}b-\frac{1}{16}$

5) $\left(\frac{1}{2}n+\frac{9}{2}\right)\left(\frac{11}{6}n-\frac{1}{5}\right)$

$\frac{11}{12}n^2+\frac{163}{20}n-\frac{9}{10}$

6) $\left(\frac{29}{6}n-\frac{11}{5}\right)\left(\frac{13}{6}n+\frac{9}{5}\right)$

$\frac{377}{36}n^2+\frac{59}{15}n-\frac{99}{25}$

7) $\left(2n-\frac{6}{5}\right)\left(\frac{21}{5}n-\frac{13}{8}\right)$

$\frac{42}{5}n^2-\frac{829}{100}n+\frac{39}{20}$

8) $\left(\frac{1}{3}k-\frac{23}{6}\right)\left(\frac{7}{4}k-8\right)$

$\frac{7}{12}k^2-\frac{75}{8}k+\frac{92}{3}$

9) $\left(\frac{13}{8}x-\frac{11}{3}\right)\left(\frac{1}{2}x+\frac{12}{7}\right)$

$\frac{13}{16}x^2+\frac{20}{21}x-\frac{44}{7}$

10) $\left(\frac{29}{6}v-3\right)\left(\frac{25}{7}v-\frac{3}{2}\right)$

$\frac{725}{42}v^2-\frac{503}{28}v+\frac{9}{2}$

11) $\left(\frac{1}{3}m-\frac{9}{5}\right)\left(\frac{9}{4}m-\frac{5}{3}\right)$

$\frac{3}{4}m^2-\frac{829}{180}m+3$

12) $\left(\frac{2}{3}v+\frac{11}{8}\right)\left(\frac{8}{3}v-1\right)$

$\frac{16}{9}v^2+3v-\frac{11}{8}$

13) $\left(\frac{6}{5}p-\frac{9}{5}\right)\left(2p+\frac{1}{4}\right)$

$\frac{12}{5}p^2-\frac{33}{10}p-\frac{9}{20}$

14) $\left(8x+\frac{14}{3}\right)\left(\frac{3}{2}x-\frac{5}{3}\right)$

$12x^2-\frac{19}{3}x-\frac{70}{9}$

15) $\left(2n-\frac{11}{6}\right)\left(\frac{4}{3}n+\frac{5}{6}\right)$

$\frac{8}{3}n^2-\frac{7}{9}n-\frac{55}{36}$

16) $\left(\frac{13}{6}m+\frac{8}{7}\right)\left(\frac{6}{7}m+\frac{13}{3}\right)$

$\frac{13}{7}m^2+\frac{9145}{882}m+\frac{104}{21}$

17) $\left(\frac{9}{2}n+\frac{13}{6}\right)\left(\frac{31}{8}n-\frac{2}{3}\right)$

$\frac{279}{16}n^2+\frac{259}{48}n-\frac{13}{9}$

18) $\left(2m+\frac{24}{5}\right)\left(\frac{1}{5}m-\frac{3}{2}\right)$

$\frac{2}{5}m^2-\frac{51}{25}m-\frac{36}{5}$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{18}{7}m+\frac{25}{8}\right)\left(m-\frac{5}{2}\right)$

2) $\left(\frac{7}{4}p-\frac{1}{2}\right)\left(\frac{1}{8}p-\frac{8}{7}\right)$

3) $\left(\frac{12}{7}v+\frac{8}{5}\right)\left(\frac{4}{3}v-\frac{12}{7}\right)$

4) $\left(\frac{23}{6}n+\frac{17}{4}\right)\left(\frac{3}{7}n+\frac{3}{5}\right)$

5) $\left(2b-\frac{5}{2}\right)\left(\frac{3}{2}b-\frac{7}{4}\right)$

6) $\left(\frac{12}{5}n+\frac{9}{2}\right)\left(\frac{13}{3}n+1\right)$

7) $\left(3x+\frac{19}{5}\right)\left(\frac{13}{6}x+\frac{7}{4}\right)$

8) $\left(2x+\frac{29}{6}\right)\left(\frac{1}{3}x+\frac{7}{5}\right)$

9) $\left(\frac{1}{2}n-8\right)\left(\frac{5}{6}n-\frac{31}{8}\right)$

10) $\left(\frac{11}{3}m+\frac{1}{4}\right)\left(2m-\frac{7}{2}\right)$

11) $\left(2r+\frac{3}{8}\right)\left(\frac{29}{8}r+\frac{3}{4}\right)$

12) $\left(\frac{1}{2}r-\frac{11}{3}\right)\left(2r+\frac{4}{3}\right)$

13) $\left(\frac{1}{2}r-\frac{8}{3}\right)\left(\frac{13}{3}r+8\right)$

14) $\left(8p-\frac{3}{2}\right)\left(\frac{9}{7}p+\frac{13}{3}\right)$

15) $\left(\frac{1}{6}p-\frac{3}{8}\right)\left(\frac{1}{8}p-1\right)$

16) $\left(\frac{7}{3}x+\frac{10}{7}\right)\left(\frac{11}{7}x+\frac{13}{2}\right)$

17) $\left(\frac{11}{7}k-\frac{3}{2}\right)\left(\frac{5}{4}k-\frac{9}{5}\right)$

18) $\left(\frac{1}{4}x+\frac{11}{4}\right)\left(\frac{14}{3}x-\frac{9}{5}\right)$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{18}{7}m+\frac{25}{8}\right)\left(m-\frac{5}{2}\right)$

$\frac{18}{7}m^2-\frac{185}{56}m-\frac{125}{16}$

2) $\left(\frac{7}{4}p-\frac{1}{2}\right)\left(\frac{1}{8}p-\frac{8}{7}\right)$

$\frac{7}{32}p^2-\frac{33}{16}p+\frac{4}{7}$

3) $\left(\frac{12}{7}v+\frac{8}{5}\right)\left(\frac{4}{3}v-\frac{12}{7}\right)$

$\frac{16}{7}v^2-\frac{592}{735}v-\frac{96}{35}$

4) $\left(\frac{23}{6}n+\frac{17}{4}\right)\left(\frac{3}{7}n+\frac{3}{5}\right)$

$\frac{23}{14}n^2+\frac{577}{140}n+\frac{51}{20}$

5) $\left(2b-\frac{5}{2}\right)\left(\frac{3}{2}b-\frac{7}{4}\right)$

$3b^2-\frac{29}{4}b+\frac{35}{8}$

6) $\left(\frac{12}{5}n+\frac{9}{2}\right)\left(\frac{13}{3}n+1\right)$

$\frac{52}{5}n^2+\frac{219}{10}n+\frac{9}{2}$

7) $\left(3x+\frac{19}{5}\right)\left(\frac{13}{6}x+\frac{7}{4}\right)$

$\frac{13}{2}x^2+\frac{809}{60}x+\frac{133}{20}$

8) $\left(2x+\frac{29}{6}\right)\left(\frac{1}{3}x+\frac{7}{5}\right)$

$\frac{2}{3}x^2+\frac{397}{90}x+\frac{203}{30}$

9) $\left(\frac{1}{2}n-8\right)\left(\frac{5}{6}n-\frac{31}{8}\right)$

$\frac{5}{12}n^2-\frac{413}{48}n+31$

10) $\left(\frac{11}{3}m+\frac{1}{4}\right)\left(2m-\frac{7}{2}\right)$

$\frac{22}{3}m^2-\frac{37}{3}m-\frac{7}{8}$

11) $\left(2r+\frac{3}{8}\right)\left(\frac{29}{8}r+\frac{3}{4}\right)$

$\frac{29}{4}r^2+\frac{183}{64}r+\frac{9}{32}$

12) $\left(\frac{1}{2}r-\frac{11}{3}\right)\left(2r+\frac{4}{3}\right)$

$r^2-\frac{20}{3}r-\frac{44}{9}$

13) $\left(\frac{1}{2}r-\frac{8}{3}\right)\left(\frac{13}{3}r+8\right)$

$\frac{13}{6}r^2-\frac{68}{9}r-\frac{64}{3}$

14) $\left(8p-\frac{3}{2}\right)\left(\frac{9}{7}p+\frac{13}{3}\right)$

$\frac{72}{7}p^2+\frac{1375}{42}p-\frac{13}{2}$

15) $\left(\frac{1}{6}p-\frac{3}{8}\right)\left(\frac{1}{8}p-1\right)$

$\frac{1}{48}p^2-\frac{41}{192}p+\frac{3}{8}$

16) $\left(\frac{7}{3}x+\frac{10}{7}\right)\left(\frac{11}{7}x+\frac{13}{2}\right)$

$\frac{11}{3}x^2+\frac{5119}{294}x+\frac{65}{7}$

17) $\left(\frac{11}{7}k-\frac{3}{2}\right)\left(\frac{5}{4}k-\frac{9}{5}\right)$

$\frac{55}{28}k^2-\frac{1317}{280}k+\frac{27}{10}$

18) $\left(\frac{1}{4}x+\frac{11}{4}\right)\left(\frac{14}{3}x-\frac{9}{5}\right)$

$\frac{7}{6}x^2+\frac{743}{60}x-\frac{99}{20}$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(x+\frac{7}{2}\right)\left(\frac{1}{7}x+\frac{3}{4}\right)$

2) $\left(\frac{7}{6}r+1\right)\left(\frac{17}{2}r+\frac{2}{5}\right)$

3) $\left(\frac{5}{6}x+\frac{34}{7}\right)\left(\frac{15}{4}x-\frac{2}{7}\right)$

4) $\left(\frac{5}{4}x-\frac{9}{4}\right)\left(\frac{13}{6}x+\frac{32}{7}\right)$

5) $\left(\frac{6}{7}b+\frac{5}{2}\right)\left(\frac{19}{4}b+7\right)$

6) $\left(\frac{39}{8}r+\frac{3}{2}\right)\left(\frac{11}{3}r-4\right)$

7) $\left(\frac{1}{4}n-\frac{5}{4}\right)\left(\frac{13}{5}n-\frac{12}{5}\right)$

8) $\left(\frac{25}{6}a+\frac{4}{5}\right)\left(a-\frac{9}{8}\right)$

9) $\left(\frac{33}{8}x+\frac{1}{2}\right)\left(\frac{1}{3}x+\frac{5}{4}\right)$

10) $\left(\frac{13}{8}n+\frac{17}{4}\right)\left(\frac{37}{8}n+\frac{11}{8}\right)$

11) $\left(6x+\frac{21}{5}\right)\left(\frac{1}{6}x-\frac{11}{6}\right)$

12) $\left(\frac{7}{6}x+2\right)\left(\frac{25}{8}x+\frac{13}{4}\right)$

13) $\left(\frac{8}{7}n-\frac{8}{3}\right)\left(\frac{5}{6}n+\frac{29}{7}\right)$

14) $\left(\frac{21}{5}b+\frac{11}{3}\right)\left(\frac{6}{5}b+\frac{15}{8}\right)$

15) $\left(\frac{34}{7}p+\frac{2}{5}\right)\left(\frac{19}{5}p+\frac{9}{5}\right)$

16) $\left(\frac{9}{5}v+2\right)\left(\frac{19}{3}v-\frac{6}{5}\right)$

17) $\left(2a-\frac{1}{2}\right)\left(\frac{29}{6}a+\frac{26}{7}\right)$

18) $\left(\frac{3}{2}v-\frac{1}{7}\right)\left(\frac{15}{4}v-\frac{11}{4}\right)$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(x+\frac{7}{2}\right)\left(\frac{1}{7}x+\frac{3}{4}\right)$

$\frac{1}{7}x^2+\frac{5}{4}x+\frac{21}{8}$

2) $\left(\frac{7}{6}r+1\right)\left(\frac{17}{2}r+\frac{2}{5}\right)$

$\frac{119}{12}r^2+\frac{269}{30}r+\frac{2}{5}$

3) $\left(\frac{5}{6}x+\frac{34}{7}\right)\left(\frac{15}{4}x-\frac{2}{7}\right)$

$\frac{25}{8}x^2+\frac{755}{42}x-\frac{68}{49}$

4) $\left(\frac{5}{4}x-\frac{9}{4}\right)\left(\frac{13}{6}x+\frac{32}{7}\right)$

$\frac{65}{24}x^2+\frac{47}{56}x-\frac{72}{7}$

5) $\left(\frac{6}{7}b+\frac{5}{2}\right)\left(\frac{19}{4}b+7\right)$

$\frac{57}{14}b^2+\frac{143}{8}b+\frac{35}{2}$

6) $\left(\frac{39}{8}r+\frac{3}{2}\right)\left(\frac{11}{3}r-4\right)$

$\frac{143}{8}r^2-14r-6$

7) $\left(\frac{1}{4}n-\frac{5}{4}\right)\left(\frac{13}{5}n-\frac{12}{5}\right)$

$\frac{13}{20}n^2-\frac{77}{20}n+3$

8) $\left(\frac{25}{6}a+\frac{4}{5}\right)\left(a-\frac{9}{8}\right)$

$\frac{25}{6}a^2-\frac{311}{80}a-\frac{9}{10}$

9) $\left(\frac{33}{8}x+\frac{1}{2}\right)\left(\frac{1}{3}x+\frac{5}{4}\right)$

$\frac{11}{8}x^2+\frac{511}{96}x+\frac{5}{8}$

10) $\left(\frac{13}{8}n+\frac{17}{4}\right)\left(\frac{37}{8}n+\frac{11}{8}\right)$

$\frac{481}{64}n^2+\frac{1401}{64}n+\frac{187}{32}$

11) $\left(6x+\frac{21}{5}\right)\left(\frac{1}{6}x-\frac{11}{6}\right)$

$x^2-\frac{103}{10}x-\frac{77}{10}$

12) $\left(\frac{7}{6}x+2\right)\left(\frac{25}{8}x+\frac{13}{4}\right)$

$\frac{175}{48}x^2+\frac{241}{24}x+\frac{13}{2}$

13) $\left(\frac{8}{7}n-\frac{8}{3}\right)\left(\frac{5}{6}n+\frac{29}{7}\right)$

$\frac{20}{21}n^2+\frac{1108}{441}n-\frac{232}{21}$

14) $\left(\frac{21}{5}b+\frac{11}{3}\right)\left(\frac{6}{5}b+\frac{15}{8}\right)$

$\frac{126}{25}b^2+\frac{491}{40}b+\frac{55}{8}$

15) $\left(\frac{34}{7}p+\frac{2}{5}\right)\left(\frac{19}{5}p+\frac{9}{5}\right)$

$\frac{646}{35}p^2+\frac{1796}{175}p+\frac{18}{25}$

16) $\left(\frac{9}{5}v+2\right)\left(\frac{19}{3}v-\frac{6}{5}\right)$

$\frac{57}{5}v^2+\frac{788}{75}v-\frac{12}{5}$

17) $\left(2a-\frac{1}{2}\right)\left(\frac{29}{6}a+\frac{26}{7}\right)$

$\frac{29}{3}a^2+\frac{421}{84}a-\frac{13}{7}$

18) $\left(\frac{3}{2}v-\frac{1}{7}\right)\left(\frac{15}{4}v-\frac{11}{4}\right)$

$\frac{45}{8}v^2-\frac{261}{56}v+\frac{11}{28}$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{23}{7}n - \frac{13}{8}\right)\left(\frac{11}{6}n + 6\right)$

2) $\left(\frac{8}{5}x + \frac{25}{7}\right)\left(\frac{6}{7}x + \frac{23}{3}\right)$

3) $\left(\frac{8}{5}b + \frac{17}{6}\right)\left(\frac{8}{3}b - \frac{16}{7}\right)$

4) $\left(\frac{1}{3}x + 1\right)\left(\frac{7}{8}x - \frac{19}{7}\right)$

5) $\left(\frac{5}{2}r - \frac{7}{6}\right)\left(\frac{1}{6}r - \frac{5}{4}\right)$

6) $\left(2n - \frac{13}{7}\right)\left(2n + \frac{31}{8}\right)$

7) $\left(\frac{3}{8}n - \frac{2}{3}\right)\left(\frac{3}{2}n + \frac{1}{8}\right)$

8) $\left(\frac{3}{7}k - 6\right)\left(\frac{7}{6}k + \frac{8}{7}\right)$

9) $\left(\frac{23}{7}n + \frac{1}{7}\right)\left(\frac{7}{6}n - \frac{7}{2}\right)$

10) $\left(\frac{7}{3}p - \frac{8}{5}\right)\left(\frac{9}{5}p + \frac{1}{2}\right)$

11) $\left(\frac{8}{3}n - 1\right)\left(\frac{2}{3}n + \frac{24}{5}\right)$

12) $\left(\frac{2}{7}n - \frac{5}{3}\right)\left(\frac{5}{3}n - \frac{1}{2}\right)$

13) $\left(\frac{3}{4}x - \frac{15}{8}\right)\left(\frac{8}{3}x + \frac{23}{3}\right)$

14) $\left(\frac{9}{2}n - 2\right)\left(2n + \frac{9}{2}\right)$

15) $\left(\frac{11}{6}b - 7\right)\left(\frac{13}{7}b - 1\right)$

16) $\left(\frac{22}{5}n - \frac{3}{2}\right)\left(\frac{3}{2}n + \frac{13}{3}\right)$

17) $\left(\frac{11}{4}n + \frac{8}{5}\right)\left(\frac{1}{4}n - \frac{8}{5}\right)$

18) $\left(\frac{9}{7}x - \frac{3}{2}\right)\left(5x - \frac{3}{4}\right)$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{23}{7}n - \frac{13}{8}\right)\left(\frac{11}{6}n + 6\right)$

$\frac{253}{42}n^2 + \frac{5623}{336}n - \frac{39}{4}$

2) $\left(\frac{8}{5}x + \frac{25}{7}\right)\left(\frac{6}{7}x + \frac{23}{3}\right)$

$\frac{48}{35}x^2 + \frac{11266}{735}x + \frac{575}{21}$

3) $\left(\frac{8}{5}b + \frac{17}{6}\right)\left(\frac{8}{3}b - \frac{16}{7}\right)$

$\frac{64}{15}b^2 + \frac{1228}{315}b - \frac{136}{21}$

4) $\left(\frac{1}{3}x + 1\right)\left(\frac{7}{8}x - \frac{19}{7}\right)$

$\frac{7}{24}x^2 - \frac{5}{168}x - \frac{19}{7}$

5) $\left(\frac{5}{2}r - \frac{7}{6}\right)\left(\frac{1}{6}r - \frac{5}{4}\right)$

$\frac{5}{12}r^2 - \frac{239}{72}r + \frac{35}{24}$

6) $\left(2n - \frac{13}{7}\right)\left(2n + \frac{31}{8}\right)$

$4n^2 + \frac{113}{28}n - \frac{403}{56}$

7) $\left(\frac{3}{8}n - \frac{2}{3}\right)\left(\frac{3}{2}n + \frac{1}{8}\right)$

$\frac{9}{16}n^2 - \frac{61}{64}n - \frac{1}{12}$

8) $\left(\frac{3}{7}k - 6\right)\left(\frac{7}{6}k + \frac{8}{7}\right)$

$\frac{1}{2}k^2 - \frac{319}{49}k - \frac{48}{7}$

9) $\left(\frac{23}{7}n + \frac{1}{7}\right)\left(\frac{7}{6}n - \frac{7}{2}\right)$

$\frac{23}{6}n^2 - \frac{34}{3}n - \frac{1}{2}$

10) $\left(\frac{7}{3}p - \frac{8}{5}\right)\left(\frac{9}{5}p + \frac{1}{2}\right)$

$\frac{21}{5}p^2 - \frac{257}{150}p - \frac{4}{5}$

11) $\left(\frac{8}{3}n - 1\right)\left(\frac{2}{3}n + \frac{24}{5}\right)$

$\frac{16}{9}n^2 + \frac{182}{15}n - \frac{24}{5}$

12) $\left(\frac{2}{7}n - \frac{5}{3}\right)\left(\frac{5}{3}n - \frac{1}{2}\right)$

$\frac{10}{21}n^2 - \frac{184}{63}n + \frac{5}{6}$

13) $\left(\frac{3}{4}x - \frac{15}{8}\right)\left(\frac{8}{3}x + \frac{23}{3}\right)$

$2x^2 + \frac{3}{4}x - \frac{115}{8}$

14) $\left(\frac{9}{2}n - 2\right)\left(2n + \frac{9}{2}\right)$

$9n^2 + \frac{65}{4}n - 9$

15) $\left(\frac{11}{6}b - 7\right)\left(\frac{13}{7}b - 1\right)$

$\frac{143}{42}b^2 - \frac{89}{6}b + 7$

16) $\left(\frac{22}{5}n - \frac{3}{2}\right)\left(\frac{3}{2}n + \frac{13}{3}\right)$

$\frac{33}{5}n^2 + \frac{1009}{60}n - \frac{13}{2}$

17) $\left(\frac{11}{4}n + \frac{8}{5}\right)\left(\frac{1}{4}n - \frac{8}{5}\right)$

$\frac{11}{16}n^2 - 4n - \frac{64}{25}$

18) $\left(\frac{9}{7}x - \frac{3}{2}\right)\left(5x - \frac{3}{4}\right)$

$\frac{45}{7}x^2 - \frac{237}{28}x + \frac{9}{8}$

Algebra 1 Name_____

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Find each product.

1) $\left(\frac{3}{2}k - \frac{14}{5}\right)\left(\frac{7}{2}k + \frac{3}{2}\right)$

2) $\left(\frac{13}{3}n + \frac{39}{8}\right)\left(\frac{7}{8}n - \frac{17}{6}\right)$

3) $\left(\frac{2}{3}k + \frac{8}{7}\right)\left(\frac{1}{2}k - \frac{7}{6}\right)$

4) $\left(\frac{4}{3}m + 1\right)\left(8m + \frac{7}{3}\right)$

5) $\left(\frac{5}{2}x - \frac{3}{2}\right)\left(\frac{7}{2}x - \frac{1}{6}\right)$

6) $\left(8b + \frac{3}{2}\right)\left(\frac{9}{7}b - \frac{1}{4}\right)$

7) $\left(\frac{17}{6}r + \frac{11}{6}\right)\left(\frac{1}{6}r - \frac{11}{6}\right)$

8) $\left(\frac{9}{8}p + \frac{4}{7}\right)\left(2p + \frac{5}{7}\right)$

9) $\left(\frac{5}{4}x - 1\right)\left(\frac{11}{8}x - \frac{8}{3}\right)$

10) $\left(\frac{13}{4}p - \frac{1}{2}\right)\left(p + \frac{10}{3}\right)$

11) $\left(\frac{13}{8}n + \frac{5}{3}\right)\left(\frac{7}{2}n + 2\right)$

12) $\left(x - \frac{3}{2}\right)\left(2x - \frac{1}{3}\right)$

13) $\left(\frac{6}{5}a + \frac{4}{5}\right)\left(\frac{11}{3}a - \frac{7}{5}\right)$

14) $\left(\frac{5}{4}b + \frac{2}{5}\right)\left(\frac{2}{3}b + 2\right)$

15) $\left(\frac{1}{3}x + \frac{10}{3}\right)\left(\frac{4}{5}x + \frac{17}{5}\right)$

16) $\left(\frac{8}{3}x - \frac{5}{7}\right)\left(\frac{25}{6}x - \frac{1}{3}\right)$

17) $\left(\frac{16}{5}p + \frac{19}{6}\right)\left(p - \frac{12}{7}\right)$

18) $\left(\frac{25}{8}x - \frac{8}{3}\right)\left(\frac{9}{5}x + \frac{2}{7}\right)$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{3}{2}k-\frac{14}{5}\right)\left(\frac{7}{2}k+\frac{3}{2}\right)$

$\frac{21}{4}k^2-\frac{151}{20}k-\frac{21}{5}$

2) $\left(\frac{13}{3}n+\frac{39}{8}\right)\left(\frac{7}{8}n-\frac{17}{6}\right)$

$\frac{91}{24}n^2-\frac{4615}{576}n-\frac{221}{16}$

3) $\left(\frac{2}{3}k+\frac{8}{7}\right)\left(\frac{1}{2}k-\frac{7}{6}\right)$

$\frac{1}{3}k^2-\frac{13}{63}k-\frac{4}{3}$

4) $\left(\frac{4}{3}m+1\right)\left(8m+\frac{7}{3}\right)$

$\frac{32}{3}m^2+\frac{100}{9}m+\frac{7}{3}$

5) $\left(\frac{5}{2}x-\frac{3}{2}\right)\left(\frac{7}{2}x-\frac{1}{6}\right)$

$\frac{35}{4}x^2-\frac{17}{3}x+\frac{1}{4}$

6) $\left(8b+\frac{3}{2}\right)\left(\frac{9}{7}b-\frac{1}{4}\right)$

$\frac{72}{7}b^2-\frac{1}{14}b-\frac{3}{8}$

7) $\left(\frac{17}{6}r+\frac{11}{6}\right)\left(\frac{1}{6}r-\frac{11}{6}\right)$

$\frac{17}{36}r^2-\frac{44}{9}r-\frac{121}{36}$

8) $\left(\frac{9}{8}p+\frac{4}{7}\right)\left(2p+\frac{5}{7}\right)$

$\frac{9}{4}p^2+\frac{109}{56}p+\frac{20}{49}$

9) $\left(\frac{5}{4}x-1\right)\left(\frac{11}{8}x-\frac{8}{3}\right)$

$\frac{55}{32}x^2-\frac{113}{24}x+\frac{8}{3}$

10) $\left(\frac{13}{4}p-\frac{1}{2}\right)\left(p+\frac{10}{3}\right)$

$\frac{13}{4}p^2+\frac{31}{3}p-\frac{5}{3}$

11) $\left(\frac{13}{8}n+\frac{5}{3}\right)\left(\frac{7}{2}n+2\right)$

$\frac{91}{16}n^2+\frac{109}{12}n+\frac{10}{3}$

12) $\left(x-\frac{3}{2}\right)\left(2x-\frac{1}{3}\right)$

$2x^2-\frac{10}{3}x+\frac{1}{2}$

13) $\left(\frac{6}{5}a+\frac{4}{5}\right)\left(\frac{11}{3}a-\frac{7}{5}\right)$

$\frac{22}{5}a^2+\frac{94}{75}a-\frac{28}{25}$

14) $\left(\frac{5}{4}b+\frac{2}{5}\right)\left(\frac{2}{3}b+2\right)$

$\frac{5}{6}b^2+\frac{83}{30}b+\frac{4}{5}$

15) $\left(\frac{1}{3}x+\frac{10}{3}\right)\left(\frac{4}{5}x+\frac{17}{5}\right)$

$\frac{4}{15}x^2+\frac{19}{5}x+\frac{34}{3}$

16) $\left(\frac{8}{3}x-\frac{5}{7}\right)\left(\frac{25}{6}x-\frac{1}{3}\right)$

$\frac{100}{9}x^2-\frac{487}{126}x+\frac{5}{21}$

17) $\left(\frac{16}{5}p+\frac{19}{6}\right)\left(p-\frac{12}{7}\right)$

$\frac{16}{5}p^2-\frac{487}{210}p-\frac{38}{7}$

18) $\left(\frac{25}{8}x-\frac{8}{3}\right)\left(\frac{9}{5}x+\frac{2}{7}\right)$

$\frac{45}{8}x^2-\frac{547}{140}x-\frac{16}{21}$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{9}{5}n+\frac{15}{8}\right)\left(\frac{1}{4}n-\frac{14}{5}\right)$

2) $\left(\frac{1}{7}x+\frac{3}{7}\right)\left(\frac{13}{7}x+\frac{7}{8}\right)$

3) $\left(\frac{7}{4}k+\frac{5}{3}\right)\left(\frac{5}{4}k-\frac{5}{8}\right)$

4) $\left(\frac{2}{5}k-\frac{1}{3}\right)\left(\frac{5}{4}k-\frac{13}{6}\right)$

5) $\left(2x+\frac{3}{2}\right)\left(\frac{27}{8}x-\frac{3}{4}\right)$

6) $\left(\frac{1}{2}n-\frac{1}{3}\right)\left(\frac{4}{3}n+\frac{7}{8}\right)$

7) $\left(\frac{1}{2}r-\frac{21}{4}\right)\left(\frac{5}{4}r-\frac{1}{6}\right)$

8) $\left(\frac{6}{7}b+\frac{5}{6}\right)\left(\frac{33}{7}b-\frac{5}{2}\right)$

9) $\left(\frac{2}{3}r-\frac{5}{4}\right)\left(\frac{3}{2}r-\frac{1}{3}\right)$

10) $\left(\frac{1}{3}k-4\right)\left(\frac{13}{3}k-\frac{3}{2}\right)$

11) $\left(\frac{13}{7}p-1\right)\left(\frac{8}{3}p-\frac{9}{7}\right)$

12) $\left(\frac{11}{8}x+\frac{17}{4}\right)\left(\frac{3}{2}x+3\right)$

13) $\left(\frac{1}{3}x-\frac{2}{3}\right)\left(\frac{1}{5}x+\frac{11}{7}\right)$

14) $\left(\frac{9}{7}r-\frac{1}{2}\right)\left(\frac{3}{4}r+\frac{17}{8}\right)$

15) $\left(\frac{15}{8}n+\frac{17}{5}\right)\left(2n+\frac{11}{3}\right)$

16) $\left(\frac{7}{4}p-\frac{1}{2}\right)\left(\frac{11}{3}p+\frac{5}{2}\right)$

17) $\left(\frac{11}{5}b-2\right)\left(\frac{13}{6}b-\frac{1}{2}\right)$

18) $\left(\frac{39}{8}b+\frac{11}{6}\right)\left(2b+\frac{1}{4}\right)$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{9}{5}n+\frac{15}{8}\right)\left(\frac{1}{4}n-\frac{14}{5}\right)$

$\frac{9}{20}n^2-\frac{3657}{800}n-\frac{21}{4}$

2) $\left(\frac{1}{7}x+\frac{3}{7}\right)\left(\frac{13}{7}x+\frac{7}{8}\right)$

$\frac{13}{49}x^2+\frac{361}{392}x+\frac{3}{8}$

3) $\left(\frac{7}{4}k+\frac{5}{3}\right)\left(\frac{5}{4}k-\frac{5}{8}\right)$

$\frac{35}{16}k^2+\frac{95}{96}k-\frac{25}{24}$

4) $\left(\frac{2}{5}k-\frac{1}{3}\right)\left(\frac{5}{4}k-\frac{13}{6}\right)$

$\frac{1}{2}k^2-\frac{77}{60}k+\frac{13}{18}$

5) $\left(2x+\frac{3}{2}\right)\left(\frac{27}{8}x-\frac{3}{4}\right)$

$\frac{27}{4}x^2+\frac{57}{16}x-\frac{9}{8}$

6) $\left(\frac{1}{2}n-\frac{1}{3}\right)\left(\frac{4}{3}n+\frac{7}{8}\right)$

$\frac{2}{3}n^2-\frac{1}{144}n-\frac{7}{24}$

7) $\left(\frac{1}{2}r-\frac{21}{4}\right)\left(\frac{5}{4}r-\frac{1}{6}\right)$

$\frac{5}{8}r^2-\frac{319}{48}r+\frac{7}{8}$

8) $\left(\frac{6}{7}b+\frac{5}{6}\right)\left(\frac{33}{7}b-\frac{5}{2}\right)$

$\frac{198}{49}b^2+\frac{25}{14}b-\frac{25}{12}$

9) $\left(\frac{2}{3}r-\frac{5}{4}\right)\left(\frac{3}{2}r-\frac{1}{3}\right)$

$r^2-\frac{151}{72}r+\frac{5}{12}$

10) $\left(\frac{1}{3}k-4\right)\left(\frac{13}{3}k-\frac{3}{2}\right)$

$\frac{13}{9}k^2-\frac{107}{6}k+6$

11) $\left(\frac{13}{7}p-1\right)\left(\frac{8}{3}p-\frac{9}{7}\right)$

$\frac{104}{21}p^2-\frac{743}{147}p+\frac{9}{7}$

12) $\left(\frac{11}{8}x+\frac{17}{4}\right)\left(\frac{3}{2}x+3\right)$

$\frac{33}{16}x^2+\frac{21}{2}x+\frac{51}{4}$

13) $\left(\frac{1}{3}x-\frac{2}{3}\right)\left(\frac{1}{5}x+\frac{11}{7}\right)$

$\frac{1}{15}x^2+\frac{41}{105}x-\frac{22}{21}$

14) $\left(\frac{9}{7}r-\frac{1}{2}\right)\left(\frac{3}{4}r+\frac{17}{8}\right)$

$\frac{27}{28}r^2+\frac{33}{14}r-\frac{17}{16}$

15) $\left(\frac{15}{8}n+\frac{17}{5}\right)\left(2n+\frac{11}{3}\right)$

$\frac{15}{4}n^2+\frac{547}{40}n+\frac{187}{15}$

16) $\left(\frac{7}{4}p-\frac{1}{2}\right)\left(\frac{11}{3}p+\frac{5}{2}\right)$

$\frac{77}{12}p^2+\frac{61}{24}p-\frac{5}{4}$

17) $\left(\frac{11}{5}b-2\right)\left(\frac{13}{6}b-\frac{1}{2}\right)$

$\frac{143}{30}b^2-\frac{163}{30}b+1$

18) $\left(\frac{39}{8}b+\frac{11}{6}\right)\left(2b+\frac{1}{4}\right)$

$\frac{39}{4}b^2+\frac{469}{96}b+\frac{11}{24}$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{29}{6}v + 1\right)\left(\frac{7}{5}v + \frac{4}{5}\right)$

2) $\left(2m - \frac{1}{4}\right)\left(\frac{6}{5}m - \frac{5}{3}\right)$

3) $\left(6n - \frac{1}{6}\right)\left(\frac{6}{7}n + 4\right)$

4) $\left(\frac{12}{7}r + \frac{8}{3}\right)\left(\frac{7}{6}r - \frac{19}{6}\right)$

5) $\left(\frac{3}{2}p - 2\right)\left(\frac{13}{4}p + 2\right)$

6) $\left(\frac{27}{7}v - \frac{4}{3}\right)\left(v - \frac{18}{7}\right)$

7) $\left(2v + \frac{11}{3}\right)\left(\frac{9}{5}v - \frac{12}{7}\right)$

8) $\left(2x - \frac{5}{3}\right)\left(\frac{13}{6}x + 2\right)$

9) $\left(\frac{9}{5}r + \frac{34}{7}\right)\left(\frac{29}{7}r - 1\right)$

10) $\left(\frac{18}{7}b - 7\right)\left(\frac{15}{4}b + \frac{33}{8}\right)$

11) $\left(\frac{7}{2}m + \frac{12}{7}\right)\left(\frac{13}{2}m + 1\right)$

12) $\left(\frac{19}{4}x + 1\right)\left(\frac{23}{5}x + \frac{15}{8}\right)$

13) $\left(\frac{5}{7}n - \frac{3}{4}\right)\left(\frac{5}{4}n - \frac{18}{5}\right)$

14) $\left(\frac{17}{5}n - \frac{10}{7}\right)\left(\frac{15}{4}n - \frac{25}{8}\right)$

15) $\left(k - \frac{7}{4}\right)\left(\frac{11}{6}k + \frac{8}{3}\right)$

16) $\left(\frac{33}{5}a - \frac{8}{5}\right)\left(a + \frac{5}{4}\right)$

17) $\left(\frac{5}{3}x - \frac{5}{3}\right)\left(\frac{1}{8}x - \frac{10}{3}\right)$

18) $\left(\frac{21}{5}a + \frac{10}{3}\right)\left(8a - \frac{3}{2}\right)$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{29}{6}v+1\right)\left(\frac{7}{5}v+\frac{4}{5}\right)$

$\frac{203}{30}v^2+\frac{79}{15}v+\frac{4}{5}$

2) $\left(2m-\frac{1}{4}\right)\left(\frac{6}{5}m-\frac{5}{3}\right)$

$\frac{12}{5}m^2-\frac{109}{30}m+\frac{5}{12}$

3) $\left(6n-\frac{1}{6}\right)\left(\frac{6}{7}n+4\right)$

$\frac{36}{7}n^2+\frac{167}{7}n-\frac{2}{3}$

4) $\left(\frac{12}{7}r+\frac{8}{3}\right)\left(\frac{7}{6}r-\frac{19}{6}\right)$

$2r^2-\frac{146}{63}r-\frac{76}{9}$

5) $\left(\frac{3}{2}p-2\right)\left(\frac{13}{4}p+2\right)$

$\frac{39}{8}p^2-\frac{7}{2}p-4$

6) $\left(\frac{27}{7}v-\frac{4}{3}\right)\left(v-\frac{18}{7}\right)$

$\frac{27}{7}v^2-\frac{1654}{147}v+\frac{24}{7}$

7) $\left(2v+\frac{11}{3}\right)\left(\frac{9}{5}v-\frac{12}{7}\right)$

$\frac{18}{5}v^2+\frac{111}{35}v-\frac{44}{7}$

8) $\left(2x-\frac{5}{3}\right)\left(\frac{13}{6}x+2\right)$

$\frac{13}{3}x^2+\frac{7}{18}x-\frac{10}{3}$

9) $\left(\frac{9}{5}r+\frac{34}{7}\right)\left(\frac{29}{7}r-1\right)$

$\frac{261}{35}r^2+\frac{4489}{245}r-\frac{34}{7}$

10) $\left(\frac{18}{7}b-7\right)\left(\frac{15}{4}b+\frac{33}{8}\right)$

$\frac{135}{14}b^2-\frac{219}{14}b-\frac{231}{8}$

11) $\left(\frac{7}{2}m+\frac{12}{7}\right)\left(\frac{13}{2}m+1\right)$

$\frac{91}{4}m^2+\frac{205}{14}m+\frac{12}{7}$

12) $\left(\frac{19}{4}x+1\right)\left(\frac{23}{5}x+\frac{15}{8}\right)$

$\frac{437}{20}x^2+\frac{2161}{160}x+\frac{15}{8}$

13) $\left(\frac{5}{7}n-\frac{3}{4}\right)\left(\frac{5}{4}n-\frac{18}{5}\right)$

$\frac{25}{28}n^2-\frac{393}{112}n+\frac{27}{10}$

14) $\left(\frac{17}{5}n-\frac{10}{7}\right)\left(\frac{15}{4}n-\frac{25}{8}\right)$

$\frac{51}{4}n^2-\frac{895}{56}n+\frac{125}{28}$

15) $\left(k-\frac{7}{4}\right)\left(\frac{11}{6}k+\frac{8}{3}\right)$

$\frac{11}{6}k^2-\frac{13}{24}k-\frac{14}{3}$

16) $\left(\frac{33}{5}a-\frac{8}{5}\right)\left(a+\frac{5}{4}\right)$

$\frac{33}{5}a^2+\frac{133}{20}a-2$

17) $\left(\frac{5}{3}x-\frac{5}{3}\right)\left(\frac{1}{8}x-\frac{10}{3}\right)$

$\frac{5}{24}x^2-\frac{415}{72}x+\frac{50}{9}$

18) $\left(\frac{21}{5}a+\frac{10}{3}\right)\left(8a-\frac{3}{2}\right)$

$\frac{168}{5}a^2+\frac{611}{30}a-5$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{2}{7}n - 1\right)\left(\frac{1}{2}n + \frac{9}{7}\right)$

2) $\left(\frac{5}{3}b + \frac{4}{5}\right)\left(\frac{3}{4}b + \frac{3}{4}\right)$

3) $\left(\frac{1}{4}x + \frac{25}{6}\right)\left(2x - \frac{2}{3}\right)$

4) $\left(\frac{1}{4}v - \frac{1}{3}\right)\left(\frac{17}{6}v - 1\right)$

5) $\left(x + \frac{9}{5}\right)\left(\frac{1}{6}x - \frac{8}{3}\right)$

6) $\left(\frac{3}{4}n - \frac{19}{6}\right)\left(\frac{3}{4}n + \frac{1}{4}\right)$

7) $\left(\frac{23}{6}b - 1\right)\left(6b + \frac{23}{6}\right)$

8) $\left(\frac{7}{8}x - \frac{11}{3}\right)\left(\frac{8}{5}x + \frac{9}{2}\right)$

9) $\left(\frac{29}{6}x - \frac{2}{3}\right)\left(\frac{7}{4}x - 2\right)$

10) $\left(\frac{5}{3}x - 1\right)\left(\frac{6}{7}x + 2\right)$

11) $\left(\frac{15}{8}p - \frac{13}{4}\right)\left(\frac{19}{6}p + \frac{4}{7}\right)$

12) $\left(\frac{21}{4}x + \frac{29}{8}\right)\left(\frac{2}{3}x + 1\right)$

13) $\left(\frac{5}{6}b + \frac{21}{8}\right)\left(\frac{2}{3}b - \frac{3}{4}\right)$

14) $\left(\frac{26}{7}x - \frac{7}{2}\right)\left(\frac{3}{2}x - \frac{8}{5}\right)$

15) $\left(\frac{24}{7}x + \frac{19}{4}\right)\left(\frac{3}{2}x + \frac{17}{4}\right)$

16) $\left(\frac{13}{4}m - \frac{5}{4}\right)\left(\frac{13}{7}m + \frac{11}{4}\right)$

17) $\left(\frac{1}{5}r - \frac{1}{4}\right)\left(\frac{13}{3}r + \frac{11}{4}\right)$

18) $\left(\frac{1}{2}v + \frac{9}{8}\right)\left(\frac{13}{7}v + \frac{3}{8}\right)$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{2}{7}n-1\right)\left(\frac{1}{2}n+\frac{9}{7}\right)$

$\frac{1}{7}n^2-\frac{13}{98}n-\frac{9}{7}$

2) $\left(\frac{5}{3}b+\frac{4}{5}\right)\left(\frac{3}{4}b+\frac{3}{4}\right)$

$\frac{5}{4}b^2+\frac{37}{20}b+\frac{3}{5}$

3) $\left(\frac{1}{4}x+\frac{25}{6}\right)\left(2x-\frac{2}{3}\right)$

$\frac{1}{2}x^2+\frac{49}{6}x-\frac{25}{9}$

4) $\left(\frac{1}{4}v-\frac{1}{3}\right)\left(\frac{17}{6}v-1\right)$

$\frac{17}{24}v^2-\frac{43}{36}v+\frac{1}{3}$

5) $\left(x+\frac{9}{5}\right)\left(\frac{1}{6}x-\frac{8}{3}\right)$

$\frac{1}{6}x^2-\frac{71}{30}x-\frac{24}{5}$

6) $\left(\frac{3}{4}n-\frac{19}{6}\right)\left(\frac{3}{4}n+\frac{1}{4}\right)$

$\frac{9}{16}n^2-\frac{35}{16}n-\frac{19}{24}$

7) $\left(\frac{23}{6}b-1\right)\left(6b+\frac{23}{6}\right)$

$23b^2+\frac{313}{36}b-\frac{23}{6}$

8) $\left(\frac{7}{8}x-\frac{11}{3}\right)\left(\frac{8}{5}x+\frac{9}{2}\right)$

$\frac{7}{5}x^2-\frac{463}{240}x-\frac{33}{2}$

9) $\left(\frac{29}{6}x-\frac{2}{3}\right)\left(\frac{7}{4}x-2\right)$

$\frac{203}{24}x^2-\frac{65}{6}x+\frac{4}{3}$

10) $\left(\frac{5}{3}x-1\right)\left(\frac{6}{7}x+2\right)$

$\frac{10}{7}x^2+\frac{52}{21}x-2$

11) $\left(\frac{15}{8}p-\frac{13}{4}\right)\left(\frac{19}{6}p+\frac{4}{7}\right)$

$\frac{95}{16}p^2-\frac{1549}{168}p-\frac{13}{7}$

12) $\left(\frac{21}{4}x+\frac{29}{8}\right)\left(\frac{2}{3}x+1\right)$

$\frac{7}{2}x^2+\frac{23}{3}x+\frac{29}{8}$

13) $\left(\frac{5}{6}b+\frac{21}{8}\right)\left(\frac{2}{3}b-\frac{3}{4}\right)$

$\frac{5}{9}b^2+\frac{9}{8}b-\frac{63}{32}$

14) $\left(\frac{26}{7}x-\frac{7}{2}\right)\left(\frac{3}{2}x-\frac{8}{5}\right)$

$\frac{39}{7}x^2-\frac{1567}{140}x+\frac{28}{5}$

15) $\left(\frac{24}{7}x+\frac{19}{4}\right)\left(\frac{3}{2}x+\frac{17}{4}\right)$

$\frac{36}{7}x^2+\frac{1215}{56}x+\frac{323}{16}$

16) $\left(\frac{13}{4}m-\frac{5}{4}\right)\left(\frac{13}{7}m+\frac{11}{4}\right)$

$\frac{169}{28}m^2+\frac{741}{112}m-\frac{55}{16}$

17) $\left(\frac{1}{5}r-\frac{1}{4}\right)\left(\frac{13}{3}r+\frac{11}{4}\right)$

$\frac{13}{15}r^2-\frac{8}{15}r-\frac{11}{16}$

18) $\left(\frac{1}{2}v+\frac{9}{8}\right)\left(\frac{13}{7}v+\frac{3}{8}\right)$

$\frac{13}{14}v^2+\frac{255}{112}v+\frac{27}{64}$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{7}{3}n+\frac{1}{2}\right)\left(\frac{6}{5}n-\frac{5}{4}\right)$

2) $\left(7x+\frac{7}{3}\right)\left(2x-\frac{5}{7}\right)$

3) $\left(\frac{2}{3}r-\frac{3}{5}\right)\left(\frac{3}{2}r-\frac{9}{8}\right)$

4) $\left(\frac{3}{2}x+3\right)\left(\frac{11}{6}x-\frac{3}{2}\right)$

5) $\left(\frac{1}{2}m-\frac{13}{8}\right)\left(\frac{1}{8}m+\frac{21}{8}\right)$

6) $\left(\frac{5}{6}x-\frac{8}{5}\right)\left(\frac{5}{2}x+\frac{26}{7}\right)$

7) $\left(\frac{3}{5}n-\frac{8}{3}\right)\left(\frac{1}{2}n-\frac{9}{5}\right)$

8) $\left(\frac{23}{5}r+\frac{14}{3}\right)\left(\frac{3}{4}r+\frac{1}{3}\right)$

9) $\left(\frac{30}{7}p-\frac{1}{2}\right)\left(p+\frac{14}{3}\right)$

10) $\left(k-\frac{11}{8}\right)\left(\frac{5}{4}k-\frac{1}{2}\right)$

11) $\left(\frac{21}{8}p+\frac{3}{4}\right)\left(p+\frac{31}{7}\right)$

12) $\left(\frac{25}{6}b+\frac{18}{7}\right)\left(\frac{1}{8}b-\frac{3}{2}\right)$

13) $\left(\frac{1}{3}p-\frac{6}{5}\right)\left(\frac{7}{8}p-\frac{18}{5}\right)$

14) $\left(\frac{59}{8}x+\frac{1}{7}\right)\left(3x+\frac{24}{7}\right)$

15) $\left(\frac{23}{5}n+\frac{11}{6}\right)\left(\frac{3}{2}n-\frac{4}{5}\right)$

16) $\left(\frac{3}{4}n-\frac{17}{6}\right)\left(\frac{4}{3}n+\frac{13}{3}\right)$

17) $\left(\frac{1}{2}m-\frac{5}{3}\right)\left(\frac{12}{7}m+\frac{1}{2}\right)$

18) $\left(\frac{9}{2}x+1\right)\left(\frac{1}{2}x-\frac{24}{7}\right)$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{7}{3}n+\frac{1}{2}\right)\left(\frac{6}{5}n-\frac{5}{4}\right)$

$\frac{14}{5}n^2-\frac{139}{60}n-\frac{5}{8}$

2) $\left(7x+\frac{7}{3}\right)\left(2x-\frac{5}{7}\right)$

$14x^2-\frac{1}{3}x-\frac{5}{3}$

3) $\left(\frac{2}{3}r-\frac{3}{5}\right)\left(\frac{3}{2}r-\frac{9}{8}\right)$

$r^2-\frac{33}{20}r+\frac{27}{40}$

4) $\left(\frac{3}{2}x+3\right)\left(\frac{11}{6}x-\frac{3}{2}\right)$

$\frac{11}{4}x^2+\frac{13}{4}x-\frac{9}{2}$

5) $\left(\frac{1}{2}m-\frac{13}{8}\right)\left(\frac{1}{8}m+\frac{21}{8}\right)$

$\frac{1}{16}m^2+\frac{71}{64}m-\frac{273}{64}$

6) $\left(\frac{5}{6}x-\frac{8}{5}\right)\left(\frac{5}{2}x+\frac{26}{7}\right)$

$\frac{25}{12}x^2-\frac{19}{21}x-\frac{208}{35}$

7) $\left(\frac{3}{5}n-\frac{8}{3}\right)\left(\frac{1}{2}n-\frac{9}{5}\right)$

$\frac{3}{10}n^2-\frac{181}{75}n+\frac{24}{5}$

8) $\left(\frac{23}{5}r+\frac{14}{3}\right)\left(\frac{3}{4}r+\frac{1}{3}\right)$

$\frac{69}{20}r^2+\frac{151}{30}r+\frac{14}{9}$

9) $\left(\frac{30}{7}p-\frac{1}{2}\right)\left(p+\frac{14}{3}\right)$

$\frac{30}{7}p^2+\frac{39}{2}p-\frac{7}{3}$

10) $\left(k-\frac{11}{8}\right)\left(\frac{5}{4}k-\frac{1}{2}\right)$

$\frac{5}{4}k^2-\frac{71}{32}k+\frac{11}{16}$

11) $\left(\frac{21}{8}p+\frac{3}{4}\right)\left(p+\frac{31}{7}\right)$

$\frac{21}{8}p^2+\frac{99}{8}p+\frac{93}{28}$

12) $\left(\frac{25}{6}b+\frac{18}{7}\right)\left(\frac{1}{8}b-\frac{3}{2}\right)$

$\frac{25}{48}b^2-\frac{83}{14}b-\frac{27}{7}$

13) $\left(\frac{1}{3}p-\frac{6}{5}\right)\left(\frac{7}{8}p-\frac{18}{5}\right)$

$\frac{7}{24}p^2-\frac{9}{4}p+\frac{108}{25}$

14) $\left(\frac{59}{8}x+\frac{1}{7}\right)\left(3x+\frac{24}{7}\right)$

$\frac{177}{8}x^2+\frac{180}{7}x+\frac{24}{49}$

15) $\left(\frac{23}{5}n+\frac{11}{6}\right)\left(\frac{3}{2}n-\frac{4}{5}\right)$

$\frac{69}{10}n^2-\frac{93}{100}n-\frac{22}{15}$

16) $\left(\frac{3}{4}n-\frac{17}{6}\right)\left(\frac{4}{3}n+\frac{13}{3}\right)$

$n^2-\frac{19}{36}n-\frac{221}{18}$

17) $\left(\frac{1}{2}m-\frac{5}{3}\right)\left(\frac{12}{7}m+\frac{1}{2}\right)$

$\frac{6}{7}m^2-\frac{73}{28}m-\frac{5}{6}$

18) $\left(\frac{9}{2}x+1\right)\left(\frac{1}{2}x-\frac{24}{7}\right)$

$\frac{9}{4}x^2-\frac{209}{14}x-\frac{24}{7}$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{1}{6}x+\frac{4}{5}\right)\left(\frac{4}{5}x+\frac{25}{7}\right)$

2) $\left(\frac{1}{5}x+5\right)\left(2x-\frac{7}{2}\right)$

3) $\left(\frac{5}{4}x+\frac{15}{8}\right)\left(\frac{6}{5}x-\frac{6}{5}\right)$

4) $\left(\frac{3}{2}x+\frac{4}{3}\right)\left(\frac{5}{8}x+\frac{1}{5}\right)$

5) $\left(\frac{19}{6}r-\frac{3}{2}\right)\left(\frac{9}{7}r+\frac{9}{7}\right)$

6) $\left(\frac{7}{4}m+\frac{9}{7}\right)\left(\frac{9}{5}m+\frac{1}{8}\right)$

7) $\left(\frac{1}{4}x+\frac{1}{8}\right)\left(\frac{7}{2}x-\frac{1}{3}\right)$

8) $\left(\frac{23}{5}m-\frac{7}{4}\right)\left(\frac{5}{4}m-1\right)$

9) $\left(x+\frac{1}{2}\right)\left(\frac{1}{2}x-\frac{12}{7}\right)$

10) $\left(\frac{1}{2}b+\frac{3}{8}\right)\left(\frac{31}{7}b+\frac{35}{8}\right)$

11) $\left(\frac{5}{4}n+\frac{6}{5}\right)\left(\frac{17}{7}n+\frac{2}{3}\right)$

12) $\left(\frac{2}{5}x-\frac{9}{7}\right)\left(\frac{1}{2}x-2\right)$

13) $\left(\frac{9}{2}x-2\right)\left(\frac{1}{4}x+1\right)$

14) $\left(\frac{11}{6}p-\frac{4}{3}\right)\left(\frac{13}{8}p+\frac{16}{7}\right)$

15) $\left(\frac{7}{5}x+\frac{11}{6}\right)\left(\frac{12}{7}x-\frac{19}{8}\right)$

16) $\left(\frac{3}{7}n+\frac{17}{4}\right)\left(\frac{7}{4}n-\frac{8}{5}\right)$

17) $\left(x-\frac{15}{4}\right)\left(\frac{12}{7}x+\frac{13}{3}\right)$

18) $\left(2n+\frac{6}{5}\right)\left(\frac{2}{3}n-\frac{13}{5}\right)$

Algebra 1 Name_____

Assignment

Date_____ Period____

Find each product.

1) $\left(\frac{1}{6}x+\frac{4}{5}\right)\left(\frac{4}{5}x+\frac{25}{7}\right)$

$\frac{2}{15}x^2+\frac{1297}{1050}x+\frac{20}{7}$

2) $\left(\frac{1}{5}x+5\right)\left(2x-\frac{7}{2}\right)$

$\frac{2}{5}x^2+\frac{93}{10}x-\frac{35}{2}$

3) $\left(\frac{5}{4}x+\frac{15}{8}\right)\left(\frac{6}{5}x-\frac{6}{5}\right)$

$\frac{3}{2}x^2+\frac{3}{4}x-\frac{9}{4}$

4) $\left(\frac{3}{2}x+\frac{4}{3}\right)\left(\frac{5}{8}x+\frac{1}{5}\right)$

$\frac{15}{16}x^2+\frac{17}{15}x+\frac{4}{15}$

5) $\left(\frac{19}{6}r-\frac{3}{2}\right)\left(\frac{9}{7}r+\frac{9}{7}\right)$

$\frac{57}{14}r^2+\frac{15}{7}r-\frac{27}{14}$

6) $\left(\frac{7}{4}m+\frac{9}{7}\right)\left(\frac{9}{5}m+\frac{1}{8}\right)$

$\frac{63}{20}m^2+\frac{2837}{1120}m+\frac{9}{56}$

7) $\left(\frac{1}{4}x+\frac{1}{8}\right)\left(\frac{7}{2}x-\frac{1}{3}\right)$

$\frac{7}{8}x^2+\frac{17}{48}x-\frac{1}{24}$

8) $\left(\frac{23}{5}m-\frac{7}{4}\right)\left(\frac{5}{4}m-1\right)$

$\frac{23}{4}m^2-\frac{543}{80}m+\frac{7}{4}$

9) $\left(x+\frac{1}{2}\right)\left(\frac{1}{2}x-\frac{12}{7}\right)$

$\frac{1}{2}x^2-\frac{41}{28}x-\frac{6}{7}$

10) $\left(\frac{1}{2}b+\frac{3}{8}\right)\left(\frac{31}{7}b+\frac{35}{8}\right)$

$\frac{31}{14}b^2+\frac{431}{112}b+\frac{105}{64}$

11) $\left(\frac{5}{4}n+\frac{6}{5}\right)\left(\frac{17}{7}n+\frac{2}{3}\right)$

$\frac{85}{28}n^2+\frac{787}{210}n+\frac{4}{5}$

12) $\left(\frac{2}{5}x-\frac{9}{7}\right)\left(\frac{1}{2}x-2\right)$

$\frac{1}{5}x^2-\frac{101}{70}x+\frac{18}{7}$

13) $\left(\frac{9}{2}x-2\right)\left(\frac{1}{4}x+1\right)$

$\frac{9}{8}x^2+4x-2$

14) $\left(\frac{11}{6}p-\frac{4}{3}\right)\left(\frac{13}{8}p+\frac{16}{7}\right)$

$\frac{143}{48}p^2+\frac{85}{42}p-\frac{64}{21}$

15) $\left(\frac{7}{5}x+\frac{11}{6}\right)\left(\frac{12}{7}x-\frac{19}{8}\right)$

$\frac{12}{5}x^2-\frac{51}{280}x-\frac{209}{48}$

16) $\left(\frac{3}{7}n+\frac{17}{4}\right)\left(\frac{7}{4}n-\frac{8}{5}\right)$

$\frac{3}{4}n^2+\frac{3781}{560}n-\frac{34}{5}$

17) $\left(x-\frac{15}{4}\right)\left(\frac{12}{7}x+\frac{13}{3}\right)$

$\frac{12}{7}x^2-\frac{44}{21}x-\frac{65}{4}$

18) $\left(2n+\frac{6}{5}\right)\left(\frac{2}{3}n-\frac{13}{5}\right)$

$\frac{4}{3}n^2-\frac{22}{5}n-\frac{78}{25}$