

Assignment

Date _____ Period _____

Find each product.

1) $\left(\frac{3}{2}x - \frac{1}{8}\right)^2$

2) $\left(\frac{19}{7}x + \frac{7}{6}\right)^2$

3) $\left(2n + \frac{3}{2}\right)^2$

4) $\left(\frac{9}{2}k - \frac{7}{6}\right)\left(\frac{9}{2}k + \frac{7}{6}\right)$

5) $\left(4r - \frac{11}{4}\right)^2$

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

7) $\left(-2 + \frac{23}{5}x\right)\left(2 + \frac{23}{5}x\right)$

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

9) $\left(\frac{11}{6}v - \frac{10}{7}\right)^2$

10) $\left(b + \frac{17}{5}\right)\left(-b + \frac{17}{5}\right)$

11) $\left(\frac{2}{3}n - \frac{1}{2}\right)^2$

12) $\left(\frac{12}{5}x + \frac{3}{5}\right)^2$

13) $\left(v - \frac{9}{8}\right)\left(v + \frac{9}{8}\right)$

14) $\left(\frac{20}{3}v - \frac{7}{4}\right)\left(\frac{20}{3}v + \frac{7}{4}\right)$

15) $\left(\frac{15}{8} + \frac{21}{5}n\right)^2$

16) $\left(-2 + \frac{7}{2}v\right)^2$

17) $\left(2 + \frac{12}{5}x\right)\left(-2 + \frac{12}{5}x\right)$

18) $\left(2k + \frac{2}{5}\right)\left(2k - \frac{2}{5}\right)$

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

20) $\left(\frac{17}{6} + \frac{4}{3}x\right)\left(\frac{17}{6} - \frac{4}{3}x\right)$

21) $\left(\frac{5}{2}x - \frac{29}{8}\right)\left(\frac{5}{2}x + \frac{29}{8}\right)$

22) $\left(\frac{3}{2}v + \frac{3}{2}\right)^2$

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Find each product.

1) $\left(\frac{3}{2}x - \frac{1}{8}\right)^2 = \frac{9}{4}x^2 - \frac{3}{8}x + \frac{1}{64}$

2) $\left(\frac{19}{7}x + \frac{7}{6}\right)^2 = \frac{361}{49}x^2 + \frac{19}{3}x + \frac{49}{36}$

3) $\left(2n + \frac{3}{2}\right)^2 = 4n^2 + 6n + \frac{9}{4}$

4) $\left(\frac{9}{2}k - \frac{7}{6}\right)\left(\frac{9}{2}k + \frac{7}{6}\right) = \frac{81}{4}k^2 - \frac{49}{36}$

5) $\left(4r - \frac{11}{4}\right)^2 = 16r^2 - 22r + \frac{121}{16}$

6) $\left(1 + \frac{25}{6}x\right)\left(-1 + \frac{25}{6}x\right) = -1 + \frac{625}{36}x^2$

7) $\left(-2 + \frac{23}{5}x\right)\left(2 + \frac{23}{5}x\right) = -4 + \frac{529}{25}x^2$

8) $\left(\frac{1}{3} + \frac{7}{2}k\right)^2 = \frac{1}{9} + \frac{7}{3}k + \frac{49}{4}k^2$

9) $\left(\frac{11}{6}v - \frac{10}{7}\right)^2 = \frac{121}{36}v^2 - \frac{110}{21}v + \frac{100}{49}$

10) $\left(b + \frac{17}{5}\right)\left(-b + \frac{17}{5}\right) = -b^2 + \frac{289}{25}$

11) $\left(\frac{2}{3}n - \frac{1}{2}\right)^2 = \frac{4}{9}n^2 - \frac{2}{3}n + \frac{1}{4}$

12) $\left(\frac{12}{5}x + \frac{3}{5}\right)^2 = \frac{144}{25}x^2 + \frac{72}{25}x + \frac{9}{25}$

13) $\left(v - \frac{9}{8}\right)\left(v + \frac{9}{8}\right) = v^2 - \frac{81}{64}$

14) $\left(\frac{20}{3}v - \frac{7}{4}\right)\left(\frac{20}{3}v + \frac{7}{4}\right) = \frac{400}{9}v^2 - \frac{49}{16}$

15) $\left(\frac{15}{8} + \frac{21}{5}n\right)^2 = \frac{225}{64} + \frac{63}{4}n + \frac{441}{25}n^2$

16) $\left(-2 + \frac{7}{2}v\right)^2 = 4 - 14v + \frac{49}{4}v^2$

17) $\left(2 + \frac{12}{5}x\right)\left(-2 + \frac{12}{5}x\right) = -4 + \frac{144}{25}x^2$

18) $\left(2k + \frac{2}{5}\right)\left(2k - \frac{2}{5}\right) = 4k^2 - \frac{4}{25}$

19) $\left(\frac{3}{4} + \frac{5}{3}b\right)\left(\frac{3}{4} - \frac{5}{3}b\right) = \frac{9}{16} - \frac{25}{9}b^2$

20) $\left(\frac{17}{6} + \frac{4}{3}x\right)\left(\frac{17}{6} - \frac{4}{3}x\right) = \frac{289}{36} - \frac{16}{9}x^2$

21) $\left(\frac{5}{2}x - \frac{29}{8}\right)\left(\frac{5}{2}x + \frac{29}{8}\right) = \frac{25}{4}x^2 - \frac{841}{64}$

22) $\left(\frac{3}{2}v + \frac{3}{2}\right)^2 = \frac{9}{4}v^2 + \frac{9}{2}v + \frac{9}{4}$

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Find each product.

1) $\left(\frac{3}{2} + \frac{35}{8}v\right)^2$

2) $\left(\frac{5}{3}b - \frac{25}{6}\right)\left(\frac{5}{3}b + \frac{25}{6}\right)$

3) $\left(\frac{7}{4}b + \frac{4}{3}\right)^2$

4) $\left(\frac{1}{4}a + \frac{11}{7}\right)\left(\frac{1}{4}a - \frac{11}{7}\right)$

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

6) $\left(2n + \frac{3}{2}\right)^2$

7) $\left(2a + \frac{5}{4}\right)\left(2a - \frac{5}{4}\right)$

8) $\left(\frac{1}{2}k - \frac{2}{3}\right)^2$

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

10) $\left(\frac{23}{6} + \frac{1}{2}a\right)\left(\frac{23}{6} - \frac{1}{2}a\right)$

11) $\left(n + \frac{16}{7}\right)^2$

12) $\left(\frac{3}{2}x - \frac{16}{5}\right)\left(\frac{3}{2}x + \frac{16}{5}\right)$

13) $\left(\frac{13}{4}n - \frac{15}{4}\right)^2$

14) $\left(\frac{13}{4}m + \frac{11}{4}\right)\left(\frac{13}{4}m - \frac{11}{4}\right)$

15) $\left(\frac{29}{6}b + \frac{34}{5}\right)^2$

16) $\left(\frac{1}{2} - \frac{7}{6}a\right)^2$

17) $\left(\frac{1}{3}r - \frac{11}{6}\right)\left(\frac{1}{3}r + \frac{11}{6}\right)$

18) $\left(\frac{5}{4}a - \frac{3}{5}\right)^2$

19) $\left(\frac{8}{7}p + \frac{13}{6}\right)^2$

20) $\left(6 - \frac{5}{2}x\right)^2$

21) $\left(\frac{11}{3}x + \frac{19}{5}\right)^2$

22) $\left(\frac{11}{5}n + \frac{2}{3}\right)^2$

Assignment

Date _____ Period _____

Find each product.

1) $\left(\frac{3}{2} + \frac{35}{8}v\right)^2 = \frac{9}{4} + \frac{105}{8}v + \frac{1225}{64}v^2$

2) $\left(\frac{5}{3}b - \frac{25}{6}\right)\left(\frac{5}{3}b + \frac{25}{6}\right) = \frac{25}{9}b^2 - \frac{625}{36}$

3) $\left(\frac{7}{4}b + \frac{4}{3}\right)^2 = \frac{49}{16}b^2 + \frac{14}{3}b + \frac{16}{9}$

4) $\left(\frac{1}{4}a + \frac{11}{7}\right)\left(\frac{1}{4}a - \frac{11}{7}\right) = \frac{1}{16}a^2 - \frac{121}{49}$

5) $\left(-1 + \frac{9}{4}x\right)\left(1 + \frac{9}{4}x\right) = -1 + \frac{81}{16}x^2$

6) $\left(2n + \frac{3}{2}\right)^2 = 4n^2 + 6n + \frac{9}{4}$

7) $\left(2a + \frac{5}{4}\right)\left(2a - \frac{5}{4}\right) = 4a^2 - \frac{25}{16}$

8) $\left(\frac{1}{2}k - \frac{2}{3}\right)^2 = \frac{1}{4}k^2 - \frac{2}{3}k + \frac{4}{9}$

9) $\left(\frac{5}{4}x - \frac{1}{5}\right)\left(\frac{5}{4}x + \frac{1}{5}\right) = \frac{25}{16}x^2 - \frac{1}{25}$

10) $\left(\frac{23}{6} + \frac{1}{2}a\right)\left(\frac{23}{6} - \frac{1}{2}a\right) = \frac{529}{36} - \frac{1}{4}a^2$

11) $\left(n + \frac{16}{7}\right)^2 = n^2 + \frac{32}{7}n + \frac{256}{49}$

12) $\left(\frac{3}{2}x - \frac{16}{5}\right)\left(\frac{3}{2}x + \frac{16}{5}\right) = \frac{9}{4}x^2 - \frac{256}{25}$

13) $\left(\frac{13}{4}n - \frac{15}{4}\right)^2 = \frac{169}{16}n^2 - \frac{195}{8}n + \frac{225}{16}$

14) $\left(\frac{13}{4}m + \frac{11}{4}\right)\left(\frac{13}{4}m - \frac{11}{4}\right) = \frac{169}{16}m^2 - \frac{121}{16}$

15) $\left(\frac{29}{6}b + \frac{34}{5}\right)^2 = \frac{841}{36}b^2 + \frac{986}{15}b + \frac{1156}{25}$

16) $\left(\frac{1}{2} - \frac{7}{6}a\right)^2 = \frac{1}{4} - \frac{7}{6}a + \frac{49}{36}a^2$

17) $\left(\frac{1}{3}r - \frac{11}{6}\right)\left(\frac{1}{3}r + \frac{11}{6}\right) = \frac{1}{9}r^2 - \frac{121}{36}$

18) $\left(\frac{5}{4}a - \frac{3}{5}\right)^2 = \frac{25}{16}a^2 - \frac{3}{2}a + \frac{9}{25}$

19) $\left(\frac{8}{7}p + \frac{13}{6}\right)^2 = \frac{64}{49}p^2 + \frac{104}{21}p + \frac{169}{36}$

20) $\left(6 - \frac{5}{2}x\right)^2 = 36 - 30x + \frac{25}{4}x^2$

21) $\left(\frac{11}{3}x + \frac{19}{5}\right)^2 = \frac{121}{9}x^2 + \frac{418}{15}x + \frac{361}{25}$

22) $\left(\frac{11}{5}n + \frac{2}{3}\right)^2 = \frac{121}{25}n^2 + \frac{44}{15}n + \frac{4}{9}$

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Date _____ Period _____

Find each product.

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

2) $\left(\frac{1}{4}p + \frac{23}{6}\right)^2$

3) $\left(\frac{7}{4}n + \frac{11}{4}\right)\left(\frac{7}{4}n - \frac{11}{4}\right)$

4) $\left(1 + \frac{19}{6}n\right)^2$

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

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

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

8) $\left(1 + \frac{14}{3}x\right)\left(-1 + \frac{14}{3}x\right)$

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

10) $\left(1 + \frac{1}{4}a\right)^2$

11) $\left(p + \frac{4}{3}\right)\left(-p + \frac{4}{3}\right)$

12) $\left(\frac{4}{3}a - \frac{25}{8}\right)\left(\frac{4}{3}a + \frac{25}{8}\right)$

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

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

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

16) $\left(\frac{17}{6} + \frac{7}{2}x\right)^2$

17) $\left(\frac{1}{2} + \frac{1}{2}p\right)\left(\frac{1}{2} - \frac{1}{2}p\right)$

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

19) $\left(\frac{7}{2}x - \frac{9}{8}\right)^2$

20) $\left(\frac{11}{6} - \frac{9}{7}n\right)\left(\frac{11}{6} + \frac{9}{7}n\right)$

21) $\left(\frac{15}{8}a - \frac{5}{4}\right)\left(\frac{15}{8}a + \frac{5}{4}\right)$

22) $\left(\frac{3}{4}m - \frac{13}{6}\right)^2$

Assignment

Date _____ Period _____

Find each product.

1) $\left(\frac{5}{8}n + \frac{1}{2}\right)\left(\frac{5}{8}n - \frac{1}{2}\right) = \frac{25}{64}n^2 - \frac{1}{4}$

2) $\left(\frac{1}{4}p + \frac{23}{6}\right)^2 = \frac{1}{16}p^2 + \frac{23}{12}p + \frac{529}{36}$

3) $\left(\frac{7}{4}n + \frac{11}{4}\right)\left(\frac{7}{4}n - \frac{11}{4}\right) = \frac{49}{16}n^2 - \frac{121}{16}$

4) $\left(1 + \frac{19}{6}n\right)^2 = 1 + \frac{19}{3}n + \frac{361}{36}n^2$

5) $\left(\frac{13}{6}x + \frac{8}{5}\right)^2 = \frac{169}{36}x^2 + \frac{104}{15}x + \frac{64}{25}$

6) $\left(\frac{9}{2} + \frac{2}{5}n\right)\left(\frac{9}{2} - \frac{2}{5}n\right) = \frac{81}{4} - \frac{4}{25}n^2$

7) $\left(-1 + \frac{7}{4}b\right)^2 = 1 - \frac{7}{2}b + \frac{49}{16}b^2$

8) $\left(1 + \frac{14}{3}x\right)\left(-1 + \frac{14}{3}x\right) = -1 + \frac{196}{9}x^2$

9) $\left(\frac{8}{5} - \frac{15}{4}x\right)\left(\frac{8}{5} + \frac{15}{4}x\right) = \frac{64}{25} - \frac{225}{16}x^2$

10) $\left(1 + \frac{1}{4}a\right)^2 = 1 + \frac{1}{2}a + \frac{1}{16}a^2$

11) $\left(p + \frac{4}{3}\right)\left(-p + \frac{4}{3}\right) = -p^2 + \frac{16}{9}$

12) $\left(\frac{4}{3}a - \frac{25}{8}\right)\left(\frac{4}{3}a + \frac{25}{8}\right) = \frac{16}{9}a^2 - \frac{625}{64}$

13) $\left(\frac{8}{5}n - \frac{3}{2}\right)\left(\frac{8}{5}n + \frac{3}{2}\right) = \frac{64}{25}n^2 - \frac{9}{4}$

14) $\left(\frac{2}{3}x - \frac{7}{8}\right)^2 = \frac{4}{9}x^2 - \frac{7}{6}x + \frac{49}{64}$

15) $\left(\frac{7}{2} + \frac{1}{2}n\right)\left(\frac{7}{2} - \frac{1}{2}n\right) = \frac{49}{4} - \frac{1}{4}n^2$

16) $\left(\frac{17}{6} + \frac{7}{2}x\right)^2 = \frac{289}{36} + \frac{119}{6}x + \frac{49}{4}x^2$

17) $\left(\frac{1}{2} + \frac{1}{2}p\right)\left(\frac{1}{2} - \frac{1}{2}p\right) = \frac{1}{4} - \frac{1}{4}p^2$

18) $\left(7b - \frac{15}{4}\right)\left(7b + \frac{15}{4}\right) = 49b^2 - \frac{225}{16}$

19) $\left(\frac{7}{2}x - \frac{9}{8}\right)^2 = \frac{49}{4}x^2 - \frac{63}{8}x + \frac{81}{64}$

20) $\left(\frac{11}{6} - \frac{9}{7}n\right)\left(\frac{11}{6} + \frac{9}{7}n\right) = \frac{121}{36} - \frac{81}{49}n^2$

21) $\left(\frac{15}{8}a - \frac{5}{4}\right)\left(\frac{15}{8}a + \frac{5}{4}\right) = \frac{225}{64}a^2 - \frac{25}{16}$

22) $\left(\frac{3}{4}m - \frac{13}{6}\right)^2 = \frac{9}{16}m^2 - \frac{13}{4}m + \frac{169}{36}$

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Date _____ Period _____

Find each product.

1) $\left(\frac{1}{6} + \frac{13}{3}a\right)^2$

2) $\left(2 + \frac{24}{7}b\right)^2$

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

4) $\left(\frac{13}{7}r + \frac{32}{7}\right)^2$

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

6) $\left(\frac{23}{7}p - \frac{1}{2}\right)^2$

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

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

9) $\left(\frac{19}{7}x + \frac{4}{7}\right)^2$

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

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

12) $\left(2x - \frac{6}{5}\right)^2$

13) $\left(\frac{7}{2}r + \frac{3}{4}\right)^2$

14) $\left(-2 + \frac{2}{3}n\right)\left(2 + \frac{2}{3}n\right)$

15) $\left(\frac{10}{7}x + \frac{4}{7}\right)\left(\frac{10}{7}x - \frac{4}{7}\right)$

16) $\left(\frac{27}{8} - \frac{33}{5}n\right)^2$

17) $\left(\frac{1}{4}n + \frac{9}{2}\right)\left(\frac{1}{4}n - \frac{9}{2}\right)$

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

19) $\left(2n + \frac{23}{8}\right)^2$

20) $\left(\frac{21}{8}n + \frac{2}{3}\right)\left(\frac{21}{8}n - \frac{2}{3}\right)$

21) $\left(\frac{7}{8}v + \frac{1}{6}\right)^2$

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

Assignment

Date _____ Period _____

Find each product.

1) $\left(\frac{1}{6} + \frac{13}{3}a\right)^2 = \frac{1}{36} + \frac{13}{9}a + \frac{169}{9}a^2$

2) $\left(2 + \frac{24}{7}b\right)^2 = 4 + \frac{96}{7}b + \frac{576}{49}b^2$

3) $\left(x - \frac{5}{4}\right)\left(x + \frac{5}{4}\right) = x^2 - \frac{25}{16}$

4) $\left(\frac{13}{7}r + \frac{32}{7}\right)^2 = \frac{169}{49}r^2 + \frac{832}{49}r + \frac{1024}{49}$

5) $\left(\frac{3}{2}n + \frac{1}{2}\right)\left(\frac{3}{2}n - \frac{1}{2}\right) = \frac{9}{4}n^2 - \frac{1}{4}$

6) $\left(\frac{23}{7}p - \frac{1}{2}\right)^2 = \frac{529}{49}p^2 - \frac{23}{7}p + \frac{1}{4}$

7) $\left(-5 + \frac{11}{3}p\right)^2 = 25 - \frac{110}{3}p + \frac{121}{9}p^2$

8) $\left(\frac{5}{4}n - \frac{3}{2}\right)\left(\frac{5}{4}n + \frac{3}{2}\right) = \frac{25}{16}n^2 - \frac{9}{4}$

9) $\left(\frac{19}{7}x + \frac{4}{7}\right)^2 = \frac{361}{49}x^2 + \frac{152}{49}x + \frac{16}{49}$

10) $\left(\frac{13}{8}x + \frac{5}{2}\right)\left(\frac{13}{8}x - \frac{5}{2}\right) = \frac{169}{64}x^2 - \frac{25}{4}$

11) $\left(\frac{6}{5}r - \frac{4}{3}\right)\left(\frac{6}{5}r + \frac{4}{3}\right) = \frac{36}{25}r^2 - \frac{16}{9}$

12) $\left(2x - \frac{6}{5}\right)^2 = 4x^2 - \frac{24}{5}x + \frac{36}{25}$

13) $\left(\frac{7}{2}r + \frac{3}{4}\right)^2 = \frac{49}{4}r^2 + \frac{21}{4}r + \frac{9}{16}$

14) $\left(-2 + \frac{2}{3}n\right)\left(2 + \frac{2}{3}n\right) = -4 + \frac{4}{9}n^2$

15) $\left(\frac{10}{7}x + \frac{4}{7}\right)\left(\frac{10}{7}x - \frac{4}{7}\right) = \frac{100}{49}x^2 - \frac{16}{49}$

16) $\left(\frac{27}{8} - \frac{33}{5}n\right)^2 = \frac{729}{64} - \frac{891}{20}n + \frac{1089}{25}n^2$

17) $\left(\frac{1}{4}n + \frac{9}{2}\right)\left(\frac{1}{4}n - \frac{9}{2}\right) = \frac{1}{16}n^2 - \frac{81}{4}$

18) $\left(\frac{5}{3} + \frac{13}{8}x\right)\left(\frac{5}{3} - \frac{13}{8}x\right) = \frac{25}{9} - \frac{169}{64}x^2$

19) $\left(2n + \frac{23}{8}\right)^2 = 4n^2 + \frac{23}{2}n + \frac{529}{64}$

20) $\left(\frac{21}{8}n + \frac{2}{3}\right)\left(\frac{21}{8}n - \frac{2}{3}\right) = \frac{441}{64}n^2 - \frac{4}{9}$

21) $\left(\frac{7}{8}v + \frac{1}{6}\right)^2 = \frac{49}{64}v^2 + \frac{7}{24}v + \frac{1}{36}$

22) $\left(\frac{8}{3}x - \frac{9}{7}\right)\left(\frac{8}{3}x + \frac{9}{7}\right) = \frac{64}{9}x^2 - \frac{81}{49}$

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Find each product.

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

2) $\left(\frac{5}{3}r + \frac{2}{3}\right)^2$

3) $\left(\frac{3}{4} + \frac{4}{7}k\right)^2$

4) $\left(\frac{5}{3}a - \frac{26}{7}\right)^2$

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

6) $\left(\frac{5}{2}k + \frac{5}{4}\right)^2$

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

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

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

10) $\left(2v + \frac{5}{3}\right)^2$

11) $\left(\frac{19}{4}x - \frac{5}{3}\right)^2$

12) $\left(\frac{11}{6}k + \frac{24}{7}\right)\left(\frac{11}{6}k - \frac{24}{7}\right)$

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

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

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

16) $\left(3v + \frac{9}{7}\right)\left(3v - \frac{9}{7}\right)$

17) $\left(\frac{1}{4}v + \frac{10}{3}\right)\left(\frac{1}{4}v - \frac{10}{3}\right)$

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

19) $\left(\frac{1}{4}x - \frac{1}{2}\right)^2$

20) $\left(\frac{3}{2}r + \frac{13}{6}\right)\left(\frac{3}{2}r - \frac{13}{6}\right)$

21) $\left(m - \frac{3}{5}\right)^2$

22) $\left(\frac{4}{3}n - \frac{7}{8}\right)^2$

Assignment

Date _____ Period _____

Find each product.

1) $\left(2n + \frac{1}{7}\right)^2 = 4n^2 + \frac{4}{7}n + \frac{1}{49}$

2) $\left(\frac{5}{3}r + \frac{2}{3}\right)^2 = \frac{25}{9}r^2 + \frac{20}{9}r + \frac{4}{9}$

3) $\left(\frac{3}{4} + \frac{4}{7}k\right)^2 = \frac{9}{16} + \frac{6}{7}k + \frac{16}{49}k^2$

4) $\left(\frac{5}{3}a - \frac{26}{7}\right)^2 = \frac{25}{9}a^2 - \frac{260}{21}a + \frac{676}{49}$

5) $\left(\frac{5}{3}x + \frac{11}{8}\right)\left(\frac{5}{3}x - \frac{11}{8}\right) = \frac{25}{9}x^2 - \frac{121}{64}$

6) $\left(\frac{5}{2}k + \frac{5}{4}\right)^2 = \frac{25}{4}k^2 + \frac{25}{4}k + \frac{25}{16}$

7) $\left(\frac{1}{2}x + \frac{2}{3}\right)^2 = \frac{1}{4}x^2 + \frac{2}{3}x + \frac{4}{9}$

8) $\left(\frac{1}{2}n - \frac{1}{3}\right)\left(\frac{1}{2}n + \frac{1}{3}\right) = \frac{1}{4}n^2 - \frac{1}{9}$

9) $\left(-1 + \frac{1}{2}m\right)\left(1 + \frac{1}{2}m\right) = -1 + \frac{1}{4}m^2$

10) $\left(2v + \frac{5}{3}\right)^2 = 4v^2 + \frac{20}{3}v + \frac{25}{9}$

11) $\left(\frac{19}{4}x - \frac{5}{3}\right)^2 = \frac{361}{16}x^2 - \frac{95}{6}x + \frac{25}{9}$

12) $\left(\frac{11}{6}k + \frac{24}{7}\right)\left(\frac{11}{6}k - \frac{24}{7}\right) = \frac{121}{36}k^2 - \frac{576}{49}$

13) $\left(\frac{7}{5}n - \frac{5}{3}\right)\left(\frac{7}{5}n + \frac{5}{3}\right) = \frac{49}{25}n^2 - \frac{25}{9}$

14) $\left(2n + \frac{1}{2}\right)\left(2n - \frac{1}{2}\right) = 4n^2 - \frac{1}{4}$

15) $\left(2 + \frac{1}{2}n\right)\left(-2 + \frac{1}{2}n\right) = -4 + \frac{1}{4}n^2$

16) $\left(3v + \frac{9}{7}\right)\left(3v - \frac{9}{7}\right) = 9v^2 - \frac{81}{49}$

17) $\left(\frac{1}{4}v + \frac{10}{3}\right)\left(\frac{1}{4}v - \frac{10}{3}\right) = \frac{1}{16}v^2 - \frac{100}{9}$

18) $\left(\frac{5}{6}x - \frac{1}{3}\right)\left(\frac{5}{6}x + \frac{1}{3}\right) = \frac{25}{36}x^2 - \frac{1}{9}$

19) $\left(\frac{1}{4}x - \frac{1}{2}\right)^2 = \frac{1}{16}x^2 - \frac{1}{4}x + \frac{1}{4}$

20) $\left(\frac{3}{2}r + \frac{13}{6}\right)\left(\frac{3}{2}r - \frac{13}{6}\right) = \frac{9}{4}r^2 - \frac{169}{36}$

21) $\left(m - \frac{3}{5}\right)^2 = m^2 - \frac{6}{5}m + \frac{9}{25}$

22) $\left(\frac{4}{3}n - \frac{7}{8}\right)^2 = \frac{16}{9}n^2 - \frac{7}{3}n + \frac{49}{64}$

Assignment

Date _____ Period _____

Find each product.

1) $\left(\frac{4}{3}x + \frac{37}{8}\right)^2$

2) $\left(\frac{3}{2}n - \frac{4}{3}\right)\left(\frac{3}{2}n + \frac{4}{3}\right)$

3) $\left(\frac{9}{4}x + \frac{3}{2}\right)^2$

4) $\left(2k + \frac{7}{6}\right)^2$

5) $\left(1 + \frac{1}{3}v\right)^2$

6) $\left(\frac{37}{7}n - \frac{4}{3}\right)\left(\frac{37}{7}n + \frac{4}{3}\right)$

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

8) $\left(\frac{4}{3}r + \frac{8}{3}\right)\left(\frac{4}{3}r - \frac{8}{3}\right)$

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

10) $\left(\frac{1}{2}x + \frac{17}{6}\right)^2$

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

12) $\left(\frac{3}{2}x + \frac{2}{3}\right)^2$

13) $\left(\frac{2}{5}n + \frac{12}{7}\right)\left(\frac{2}{5}n - \frac{12}{7}\right)$

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

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

16) $\left(6x + \frac{1}{6}\right)\left(6x - \frac{1}{6}\right)$

17) $\left(\frac{1}{7}x - \frac{17}{5}\right)^2$

18) $\left(\frac{10}{3}v + \frac{3}{8}\right)\left(\frac{10}{3}v - \frac{3}{8}\right)$

19) $\left(\frac{19}{5}r - \frac{11}{8}\right)\left(\frac{19}{5}r + \frac{11}{8}\right)$

20) $\left(\frac{5}{7}p + \frac{34}{7}\right)^2$

21) $\left(\frac{3}{5}a + \frac{33}{8}\right)\left(\frac{3}{5}a - \frac{33}{8}\right)$

22) $\left(-1 + \frac{1}{8}x\right)\left(1 + \frac{1}{8}x\right)$

Assignment

Date _____ Period _____

Find each product.

1) $\left(\frac{4}{3}x + \frac{37}{8}\right)^2 = \frac{16}{9}x^2 + \frac{37}{3}x + \frac{1369}{64}$

2) $\left(\frac{3}{2}n - \frac{4}{3}\right)\left(\frac{3}{2}n + \frac{4}{3}\right) = \frac{9}{4}n^2 - \frac{16}{9}$

3) $\left(\frac{9}{4}x + \frac{3}{2}\right)^2 = \frac{81}{16}x^2 + \frac{27}{4}x + \frac{9}{4}$

4) $\left(2k + \frac{7}{6}\right)^2 = 4k^2 + \frac{14}{3}k + \frac{49}{36}$

5) $\left(1 + \frac{1}{3}v\right)^2 = 1 + \frac{2}{3}v + \frac{1}{9}v^2$

6) $\left(\frac{37}{7}n - \frac{4}{3}\right)\left(\frac{37}{7}n + \frac{4}{3}\right) = \frac{1369}{49}n^2 - \frac{16}{9}$

7) $\left(\frac{3}{4} + \frac{9}{2}x\right)\left(\frac{3}{4} - \frac{9}{2}x\right) = \frac{9}{16} - \frac{81}{4}x^2$

8) $\left(\frac{4}{3}r + \frac{8}{3}\right)\left(\frac{4}{3}r - \frac{8}{3}\right) = \frac{16}{9}r^2 - \frac{64}{9}$

9) $\left(\frac{11}{8}v + \frac{3}{2}\right)\left(\frac{11}{8}v - \frac{3}{2}\right) = \frac{121}{64}v^2 - \frac{9}{4}$

10) $\left(\frac{1}{2}x + \frac{17}{6}\right)^2 = \frac{1}{4}x^2 + \frac{17}{6}x + \frac{289}{36}$

11) $\left(\frac{3}{2}n + \frac{24}{5}\right)\left(\frac{3}{2}n - \frac{24}{5}\right) = \frac{9}{4}n^2 - \frac{576}{25}$

12) $\left(\frac{3}{2}x + \frac{2}{3}\right)^2 = \frac{9}{4}x^2 + 2x + \frac{4}{9}$

13) $\left(\frac{2}{5}n + \frac{12}{7}\right)\left(\frac{2}{5}n - \frac{12}{7}\right) = \frac{4}{25}n^2 - \frac{144}{49}$

14) $\left(\frac{1}{3}n - \frac{5}{2}\right)\left(\frac{1}{3}n + \frac{5}{2}\right) = \frac{1}{9}n^2 - \frac{25}{4}$

15) $\left(\frac{5}{8}n - \frac{11}{3}\right)\left(\frac{5}{8}n + \frac{11}{3}\right) = \frac{25}{64}n^2 - \frac{121}{9}$

16) $\left(6x + \frac{1}{6}\right)\left(6x - \frac{1}{6}\right) = 36x^2 - \frac{1}{36}$

17) $\left(\frac{1}{7}x - \frac{17}{5}\right)^2 = \frac{1}{49}x^2 - \frac{34}{35}x + \frac{289}{25}$

18) $\left(\frac{10}{3}v + \frac{3}{8}\right)\left(\frac{10}{3}v - \frac{3}{8}\right) = \frac{100}{9}v^2 - \frac{9}{64}$

19) $\left(\frac{19}{5}r - \frac{11}{8}\right)\left(\frac{19}{5}r + \frac{11}{8}\right) = \frac{361}{25}r^2 - \frac{121}{64}$

20) $\left(\frac{5}{7}p + \frac{34}{7}\right)^2 = \frac{25}{49}p^2 + \frac{340}{49}p + \frac{1156}{49}$

21) $\left(\frac{3}{5}a + \frac{33}{8}\right)\left(\frac{3}{5}a - \frac{33}{8}\right) = \frac{9}{25}a^2 - \frac{1089}{64}$

22) $\left(-1 + \frac{1}{8}x\right)\left(1 + \frac{1}{8}x\right) = -1 + \frac{1}{64}x^2$

Assignment

Date _____ Period _____

Find each product.

1) $\left(8m + \frac{9}{2}\right)^2$

2) $\left(\frac{11}{8} - \frac{17}{6}v\right)^2$

3) $\left(\frac{7}{4}x + \frac{7}{5}\right)^2$

4) $\left(\frac{6}{7}r - \frac{9}{4}\right)\left(\frac{6}{7}r + \frac{9}{4}\right)$

5) $\left(\frac{1}{4}x - \frac{2}{7}\right)^2$

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

7) $\left(\frac{1}{4}m - \frac{1}{2}\right)^2$

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

9) $\left(\frac{19}{8}x + \frac{1}{7}\right)^2$

10) $\left(\frac{5}{6}x + \frac{22}{5}\right)^2$

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

12) $\left(1 + \frac{33}{8}x\right)^2$

13) $\left(8 + \frac{14}{3}r\right)^2$

14) $\left(2k + \frac{5}{2}\right)^2$

15) $\left(1 + \frac{25}{6}r\right)\left(-1 + \frac{25}{6}r\right)$

16) $\left(a - \frac{9}{8}\right)^2$

17) $\left(\frac{13}{4} + \frac{5}{6}x\right)^2$

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

19) $\left(5 + \frac{13}{6}r\right)\left(-5 + \frac{13}{6}r\right)$

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

21) $\left(\frac{3}{5}x - \frac{11}{6}\right)^2$

22) $\left(\frac{11}{6}a + \frac{1}{6}\right)\left(\frac{11}{6}a - \frac{1}{6}\right)$

Assignment

Date _____ Period _____

Find each product.

1) $\left(8m + \frac{9}{2}\right)^2 = 64m^2 + 72m + \frac{81}{4}$

2) $\left(\frac{11}{8} - \frac{17}{6}v\right)^2 = \frac{121}{64} - \frac{187}{24}v + \frac{289}{36}v^2$

3) $\left(\frac{7}{4}x + \frac{7}{5}\right)^2 = \frac{49}{16}x^2 + \frac{49}{10}x + \frac{49}{25}$

4) $\left(\frac{6}{7}r - \frac{9}{4}\right)\left(\frac{6}{7}r + \frac{9}{4}\right) = \frac{36}{49}r^2 - \frac{81}{16}$

5) $\left(\frac{1}{4}x - \frac{2}{7}\right)^2 = \frac{1}{16}x^2 - \frac{1}{7}x + \frac{4}{49}$

6) $\left(\frac{11}{6}k - \frac{4}{7}\right)\left(\frac{11}{6}k + \frac{4}{7}\right) = \frac{121}{36}k^2 - \frac{16}{49}$

7) $\left(\frac{1}{4}m - \frac{1}{2}\right)^2 = \frac{1}{16}m^2 - \frac{1}{4}m + \frac{1}{4}$

8) $\left(\frac{11}{7}x + \frac{1}{3}\right)\left(\frac{11}{7}x - \frac{1}{3}\right) = \frac{121}{49}x^2 - \frac{1}{9}$

9) $\left(\frac{19}{8}x + \frac{1}{7}\right)^2 = \frac{361}{64}x^2 + \frac{19}{28}x + \frac{1}{49}$

10) $\left(\frac{5}{6}x + \frac{22}{5}\right)^2 = \frac{25}{36}x^2 + \frac{22}{3}x + \frac{484}{25}$

11) $\left(\frac{6}{5}n - \frac{3}{4}\right)\left(\frac{6}{5}n + \frac{3}{4}\right) = \frac{36}{25}n^2 - \frac{9}{16}$

12) $\left(1 + \frac{33}{8}x\right)^2 = 1 + \frac{33}{4}x + \frac{1089}{64}x^2$

13) $\left(8 + \frac{14}{3}r\right)^2 = 64 + \frac{224}{3}r + \frac{196}{9}r^2$

14) $\left(2k + \frac{5}{2}\right)^2 = 4k^2 + 10k + \frac{25}{4}$

15) $\left(1 + \frac{25}{6}r\right)\left(-1 + \frac{25}{6}r\right) = -1 + \frac{625}{36}r^2$

16) $\left(a - \frac{9}{8}\right)^2 = a^2 - \frac{9}{4}a + \frac{81}{64}$

17) $\left(\frac{13}{4} + \frac{5}{6}x\right)^2 = \frac{169}{16} + \frac{65}{12}x + \frac{25}{36}x^2$

18) $\left(\frac{4}{3} + \frac{1}{4}x\right)\left(\frac{4}{3} - \frac{1}{4}x\right) = \frac{16}{9} - \frac{1}{16}x^2$

19) $\left(5 + \frac{13}{6}r\right)\left(-5 + \frac{13}{6}r\right) = -25 + \frac{169}{36}r^2$

20) $\left(\frac{1}{2}x - \frac{1}{3}\right)^2 = \frac{1}{4}x^2 - \frac{1}{3}x + \frac{1}{9}$

21) $\left(\frac{3}{5}x - \frac{11}{6}\right)^2 = \frac{9}{25}x^2 - \frac{11}{5}x + \frac{121}{36}$

22) $\left(\frac{11}{6}a + \frac{1}{6}\right)\left(\frac{11}{6}a - \frac{1}{6}\right) = \frac{121}{36}a^2 - \frac{1}{36}$

Assignment

Date _____ Period _____

Find each product.

1) $\left(\frac{10}{3}p + \frac{32}{7}\right)\left(\frac{10}{3}p - \frac{32}{7}\right)$

2) $\left(\frac{1}{8}n + \frac{27}{8}\right)^2$

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

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

5) $\left(\frac{11}{5}m - \frac{17}{7}\right)\left(\frac{11}{5}m + \frac{17}{7}\right)$

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

7) $\left(\frac{9}{8}b - \frac{13}{4}\right)^2$

8) $\left(b + \frac{5}{3}\right)\left(-b + \frac{5}{3}\right)$

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

10) $\left(8 + \frac{5}{2}b\right)^2$

11) $\left(v + \frac{8}{3}\right)^2$

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

13) $\left(2x + \frac{24}{7}\right)^2$

14) $\left(\frac{5}{4}n - \frac{1}{2}\right)^2$

15) $\left(\frac{3}{2}x + \frac{3}{2}\right)^2$

16) $\left(2a - \frac{5}{6}\right)\left(2a + \frac{5}{6}\right)$

17) $\left(\frac{5}{2}p + \frac{2}{3}\right)^2$

18) $\left(\frac{23}{8}m + \frac{13}{7}\right)\left(\frac{23}{8}m - \frac{13}{7}\right)$

19) $\left(2 + \frac{5}{4}x\right)\left(-2 + \frac{5}{4}x\right)$

20) $\left(1 + \frac{1}{3}n\right)\left(1 - \frac{1}{3}n\right)$

21) $\left(\frac{6}{5}p + \frac{7}{4}\right)^2$

22) $\left(\frac{17}{6}x + \frac{4}{5}\right)^2$

Assignment

Date _____ Period _____

Find each product.

1) $\left(\frac{10}{3}p + \frac{32}{7}\right)\left(\frac{10}{3}p - \frac{32}{7}\right) = \frac{100}{9}p^2 - \frac{1024}{49}$

2) $\left(\frac{1}{8}n + \frac{27}{8}\right)^2 = \frac{1}{64}n^2 + \frac{27}{32}n + \frac{729}{64}$

3) $\left(\frac{3}{2}n - \frac{5}{2}\right)\left(\frac{3}{2}n + \frac{5}{2}\right) = \frac{9}{4}n^2 - \frac{25}{4}$

4) $\left(\frac{1}{7}n + \frac{1}{7}\right)\left(\frac{1}{7}n - \frac{1}{7}\right) = \frac{1}{49}n^2 - \frac{1}{49}$

5) $\left(\frac{11}{5}m - \frac{17}{7}\right)\left(\frac{11}{5}m + \frac{17}{7}\right) = \frac{121}{25}m^2 - \frac{289}{49}$

6) $\left(3 + \frac{9}{5}v\right)^2 = 9 + \frac{54}{5}v + \frac{81}{25}v^2$

7) $\left(\frac{9}{8}b - \frac{13}{4}\right)^2 = \frac{81}{64}b^2 - \frac{117}{16}b + \frac{169}{16}$

8) $\left(b + \frac{5}{3}\right)\left(-b + \frac{5}{3}\right) = -b^2 + \frac{25}{9}$

9) $\left(1 + \frac{8}{3}n\right)\left(1 - \frac{8}{3}n\right) = 1 - \frac{64}{9}n^2$

10) $\left(8 + \frac{5}{2}b\right)^2 = 64 + 40b + \frac{25}{4}b^2$

11) $\left(v + \frac{8}{3}\right)^2 = v^2 + \frac{16}{3}v + \frac{64}{9}$

12) $\left(2 + \frac{5}{3}n\right)\left(2 - \frac{5}{3}n\right) = 4 - \frac{25}{9}n^2$

13) $\left(2x + \frac{24}{7}\right)^2 = 4x^2 + \frac{96}{7}x + \frac{576}{49}$

14) $\left(\frac{5}{4}n - \frac{1}{2}\right)^2 = \frac{25}{16}n^2 - \frac{5}{4}n + \frac{1}{4}$

15) $\left(\frac{3}{2}x + \frac{3}{2}\right)^2 = \frac{9}{4}x^2 + \frac{9}{2}x + \frac{9}{4}$

16) $\left(2a - \frac{5}{6}\right)\left(2a + \frac{5}{6}\right) = 4a^2 - \frac{25}{36}$

17) $\left(\frac{5}{2}p + \frac{2}{3}\right)^2 = \frac{25}{4}p^2 + \frac{10}{3}p + \frac{4}{9}$

18) $\left(\frac{23}{8}m + \frac{13}{7}\right)\left(\frac{23}{8}m - \frac{13}{7}\right) = \frac{529}{64}m^2 - \frac{169}{49}$

19) $\left(2 + \frac{5}{4}x\right)\left(-2 + \frac{5}{4}x\right) = -4 + \frac{25}{16}x^2$

20) $\left(1 + \frac{1}{3}n\right)\left(1 - \frac{1}{3}n\right) = 1 - \frac{1}{9}n^2$

21) $\left(\frac{6}{5}p + \frac{7}{4}\right)^2 = \frac{36}{25}p^2 + \frac{21}{5}p + \frac{49}{16}$

22) $\left(\frac{17}{6}x + \frac{4}{5}\right)^2 = \frac{289}{36}x^2 + \frac{68}{15}x + \frac{16}{25}$

Assignment

Date _____ Period _____

Find each product.

1) $\left(\frac{3}{2}a - \frac{5}{6}\right)^2$

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

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

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

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

6) $\left(\frac{17}{6}p - \frac{11}{4}\right)\left(\frac{17}{6}p + \frac{11}{4}\right)$

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

8) $\left(\frac{3}{8}x - \frac{17}{6}\right)^2$

9) $\left(\frac{4}{5}m + \frac{11}{6}\right)\left(\frac{4}{5}m - \frac{11}{6}\right)$

10) $\left(\frac{5}{3}x - \frac{11}{7}\right)^2$

11) $\left(\frac{4}{3}b - \frac{3}{2}\right)^2$

12) $\left(\frac{5}{4} + \frac{1}{2}x\right)^2$

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

14) $\left(\frac{33}{8} + \frac{1}{3}r\right)\left(\frac{33}{8} - \frac{1}{3}r\right)$

15) $\left(\frac{25}{6}n - \frac{23}{7}\right)^2$

16) $\left(\frac{19}{5}x - \frac{1}{3}\right)^2$

17) $\left(\frac{39}{8}a + \frac{21}{5}\right)^2$

18) $\left(\frac{3}{5}r + \frac{25}{7}\right)\left(\frac{3}{5}r - \frac{25}{7}\right)$

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

20) $\left(x + \frac{23}{6}\right)^2$

21) $\left(\frac{29}{6}n + \frac{2}{3}\right)^2$

22) $\left(\frac{3}{4}k + \frac{14}{3}\right)^2$

Assignment

Date _____ Period _____

Find each product.

1) $\left(\frac{3}{2}a - \frac{5}{6}\right)^2 \frac{9}{4}a^2 - \frac{5}{2}a + \frac{25}{36}$

2) $\left(p + \frac{4}{3}\right)\left(-p + \frac{4}{3}\right) -p^2 + \frac{16}{9}$

3) $\left(8p + \frac{5}{2}\right)\left(8p - \frac{5}{2}\right) 64p^2 - \frac{25}{4}$

4) $\left(\frac{2}{3}k + \frac{5}{3}\right)^2 \frac{4}{9}k^2 + \frac{20}{9}k + \frac{25}{9}$

5) $\left(\frac{1}{5}m + \frac{25}{8}\right)\left(\frac{1}{5}m - \frac{25}{8}\right) \frac{1}{25}m^2 - \frac{625}{64}$

6) $\left(\frac{17}{6}p - \frac{11}{4}\right)\left(\frac{17}{6}p + \frac{11}{4}\right) \frac{289}{36}p^2 - \frac{121}{16}$

7) $\left(1 + \frac{2}{3}n\right)\left(-1 + \frac{2}{3}n\right) -1 + \frac{4}{9}n^2$

8) $\left(\frac{3}{8}x - \frac{17}{6}\right)^2 \frac{9}{64}x^2 - \frac{17}{8}x + \frac{289}{36}$

9) $\left(\frac{4}{5}m + \frac{11}{6}\right)\left(\frac{4}{5}m - \frac{11}{6}\right) \frac{16}{25}m^2 - \frac{121}{36}$

10) $\left(\frac{5}{3}x - \frac{11}{7}\right)^2 \frac{25}{9}x^2 - \frac{110}{21}x + \frac{121}{49}$

11) $\left(\frac{4}{3}b - \frac{3}{2}\right)^2 \frac{16}{9}b^2 - 4b + \frac{9}{4}$

12) $\left(\frac{5}{4} + \frac{1}{2}x\right)^2 \frac{25}{16} + \frac{5}{4}x + \frac{1}{4}x^2$

13) $\left(\frac{3}{5}n + \frac{6}{5}\right)^2 \frac{9}{25}n^2 + \frac{36}{25}n + \frac{36}{25}$

14) $\left(\frac{33}{8} + \frac{1}{3}r\right)\left(\frac{33}{8} - \frac{1}{3}r\right) \frac{1089}{64} - \frac{1}{9}r^2$

15) $\left(\frac{25}{6}n - \frac{23}{7}\right)^2 \frac{625}{36}n^2 - \frac{575}{21}n + \frac{529}{49}$

16) $\left(\frac{19}{5}x - \frac{1}{3}\right)^2 \frac{361}{25}x^2 - \frac{38}{15}x + \frac{1}{9}$

17) $\left(\frac{39}{8}a + \frac{21}{5}\right)^2 \frac{1521}{64}a^2 + \frac{819}{20}a + \frac{441}{25}$

18) $\left(\frac{3}{5}r + \frac{25}{7}\right)\left(\frac{3}{5}r - \frac{25}{7}\right) \frac{9}{25}r^2 - \frac{625}{49}$

19) $\left(\frac{7}{4}b + \frac{1}{2}\right)\left(\frac{7}{4}b - \frac{1}{2}\right) \frac{49}{16}b^2 - \frac{1}{4}$

20) $\left(x + \frac{23}{6}\right)^2 x^2 + \frac{23}{3}x + \frac{529}{36}$

21) $\left(\frac{29}{6}n + \frac{2}{3}\right)^2 \frac{841}{36}n^2 + \frac{58}{9}n + \frac{4}{9}$

22) $\left(\frac{3}{4}k + \frac{14}{3}\right)^2 \frac{9}{16}k^2 + 7k + \frac{196}{9}$

Assignment

Date _____ Period _____

Find each product.

1) $\left(\frac{1}{7}a + \frac{22}{5}\right)\left(\frac{1}{7}a - \frac{22}{5}\right)$

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

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

4) $\left(1 + \frac{7}{4}v\right)^2$

5) $\left(\frac{3}{7} + \frac{5}{3}p\right)^2$

6) $\left(8k + \frac{23}{5}\right)\left(8k - \frac{23}{5}\right)$

7) $\left(\frac{14}{3}n + \frac{7}{6}\right)\left(\frac{14}{3}n - \frac{7}{6}\right)$

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

9) $\left(r + \frac{15}{4}\right)^2$

10) $\left(\frac{13}{6}n + \frac{19}{5}\right)\left(\frac{13}{6}n - \frac{19}{5}\right)$

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

12) $\left(3 + \frac{35}{8}b\right)\left(-3 + \frac{35}{8}b\right)$

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

14) $\left(7 + \frac{9}{8}x\right)^2$

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

16) $\left(\frac{5}{6}n - \frac{5}{4}\right)\left(\frac{5}{6}n + \frac{5}{4}\right)$

17) $\left(\frac{35}{8}k - \frac{1}{2}\right)^2$

18) $\left(x + \frac{15}{4}\right)\left(x - \frac{15}{4}\right)$

19) $\left(-1 + \frac{1}{5}k\right)^2$

20) $\left(\frac{1}{2} + \frac{1}{2}a\right)\left(\frac{1}{2} - \frac{1}{2}a\right)$

21) $\left(\frac{2}{7}n + \frac{7}{6}\right)\left(\frac{2}{7}n - \frac{7}{6}\right)$

22) $\left(6x + \frac{21}{5}\right)^2$

Assignment

Date _____ Period _____

Find each product.

1) $\left(\frac{1}{7}a + \frac{22}{5}\right)\left(\frac{1}{7}a - \frac{22}{5}\right) = \frac{1}{49}a^2 - \frac{484}{25}$

2) $\left(\frac{6}{7} + \frac{5}{4}x\right)\left(\frac{6}{7} - \frac{5}{4}x\right) = \frac{36}{49} - \frac{25}{16}x^2$

3) $\left(\frac{5}{6}k - \frac{13}{4}\right)^2 = \frac{25}{36}k^2 - \frac{65}{12}k + \frac{169}{16}$

4) $\left(1 + \frac{7}{4}v\right)^2 = 1 + \frac{7}{2}v + \frac{49}{16}v^2$

5) $\left(\frac{3}{7} + \frac{5}{3}p\right)^2 = \frac{9}{49} + \frac{10}{7}p + \frac{25}{9}p^2$

6) $\left(8k + \frac{23}{5}\right)\left(8k - \frac{23}{5}\right) = 64k^2 - \frac{529}{25}$

7) $\left(\frac{14}{3}n + \frac{7}{6}\right)\left(\frac{14}{3}n - \frac{7}{6}\right) = \frac{196}{9}n^2 - \frac{49}{36}$

8) $\left(\frac{3}{2}x - \frac{9}{5}\right)\left(\frac{3}{2}x + \frac{9}{5}\right) = \frac{9}{4}x^2 - \frac{81}{25}$

9) $\left(r + \frac{15}{4}\right)^2 = r^2 + \frac{15}{2}r + \frac{225}{16}$

10) $\left(\frac{13}{6}n + \frac{19}{5}\right)\left(\frac{13}{6}n - \frac{19}{5}\right) = \frac{169}{36}n^2 - \frac{361}{25}$

11) $\left(\frac{11}{8}x - \frac{2}{5}\right)\left(\frac{11}{8}x + \frac{2}{5}\right) = \frac{121}{64}x^2 - \frac{4}{25}$

12) $\left(3 + \frac{35}{8}b\right)\left(-3 + \frac{35}{8}b\right) = -9 + \frac{1225}{64}b^2$

13) $\left(1 + \frac{12}{7}m\right)\left(-1 + \frac{12}{7}m\right) = -1 + \frac{144}{49}m^2$

14) $\left(7 + \frac{9}{8}x\right)^2 = 49 + \frac{63}{4}x + \frac{81}{64}x^2$

15) $\left(\frac{1}{2}x - \frac{5}{2}\right)\left(\frac{1}{2}x + \frac{5}{2}\right) = \frac{1}{4}x^2 - \frac{25}{4}$

16) $\left(\frac{5}{6}n - \frac{5}{4}\right)\left(\frac{5}{6}n + \frac{5}{4}\right) = \frac{25}{36}n^2 - \frac{25}{16}$

17) $\left(\frac{35}{8}k - \frac{1}{2}\right)^2 = \frac{1225}{64}k^2 - \frac{35}{8}k + \frac{1}{4}$

18) $\left(x + \frac{15}{4}\right)\left(x - \frac{15}{4}\right) = x^2 - \frac{225}{16}$

19) $\left(-1 + \frac{1}{5}k\right)^2 = 1 - \frac{2}{5}k + \frac{1}{25}k^2$

20) $\left(\frac{1}{2} + \frac{1}{2}a\right)\left(\frac{1}{2} - \frac{1}{2}a\right) = \frac{1}{4} - \frac{1}{4}a^2$

21) $\left(\frac{2}{7}n + \frac{7}{6}\right)\left(\frac{2}{7}n - \frac{7}{6}\right) = \frac{4}{49}n^2 - \frac{49}{36}$

22) $\left(6x + \frac{21}{5}\right)^2 = 36x^2 + \frac{252}{5}x + \frac{441}{25}$