



**Section 5-6 any
homework
questions???**

11. Multiply or divide as indicated.

a) $(2r)(-6r)$

b) $(-16n^2) \div (-8n)$

c) $(-5g)(7g)$

d) $\frac{40k}{-10k}$

e) $(9h)(3h)$

f) $\frac{48p^2}{12p}$

g) $18u^2 \div (-3u^2)$

h) $\frac{-24d^2}{-8d^2}$

11. a) $-12r^2$

e) $27h^2$

b) $2n$

f) $4p$

c) $-35g^2$

g) -6

d) -4

h) 3

12. Use any strategy to determine each product.

a) $2x(x + 6)$

b) $3t(5t + 2)$

c) $-2w(3w - 5)$

d) $-x(2 + 8x)$

e) $3g(-5 - g)$

f) $(4 + 3y)(2y)$

g) $(-7s - 1)(-y)$

h) $(-3 + 6r)(2r)$

12. a) $2x^2 + 12x$ b) $15t^2 + 6t$ c) $-6w^2 + 10w$
d) $-2x - 8x^2$ e) $-15g - 3g^2$ f) $8y + 6y^2$
g) $7sy + y$ h) $-6r + 12r^2$

16. Use any strategy to determine each quotient.

a) $\frac{10x^2 + 4x}{2x}$

b) $(6x^2 + 4x) \div x$

c) $\frac{6y + 3y^2}{3y}$

d) $\frac{40x^2 - 16x}{8x}$

e) $\frac{15g - 10g^2}{5g}$

f) $\frac{-12k - 24k^2}{3k}$

g) $(24h^2 + 36h) \div (-4h)$

h) $(-8m^2 + 18m) \div (-2m)$

16. a) $5x + 2$

b) $6x + 4$

c) $2 + y$

d) $5x - 2$

e) $3 - 2g$

f) $-4 - 8k$

g) $-6h - 9$

h) $4m - 9$

$$\begin{array}{r} 24h^2 + 36h \\ \underline{-4h} \quad \underline{-4h} \\ -6h - 9 \end{array}$$

19. a) Write a polynomial to represent the area of each rectangle in the diagram below.



$$2s(3s+2)$$

$$6s^2 + 4s$$

$$2s(s+1)$$

$$2s^2 + 2s$$

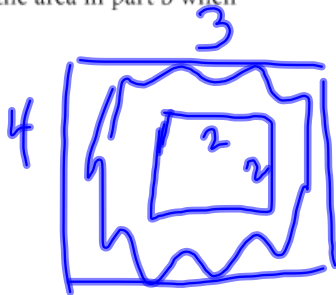
- b) Determine a polynomial for the shaded area. Justify your strategy.
 c) Determine the area in part b when $s = 2.5$ cm.

$$(6s^2 + 4s) - (2s^2 + 2s)$$

$$6s^2 + 4s - 2s^2 - 2s$$

$$6s^2 - 2s^2 + 4s - 2s$$

$$4s^2 + 2s$$



$$4(2.5)^2 + 2(2.5)$$

$$30$$

20. Determine each product.

- a) $3m(2n + 4)$
- b) $(-5 + 3f)(-2g)$
- c) $7m(-6p + 7m)$
- d) $(-8h - 3k)(4k)$
- e) $(-2t + 3r)(4t)$
- f) $(-g)(8h - 5g)$

21. Determine each quotient.

a) $(12x^2 + 6xy) \div 3x$

b) $\frac{12gh + 6g}{2g}$

c) $(-27p^2 + 36pq) \div 9p$

d) $\frac{40rs - 35r}{-5r}$

e) $\frac{14n^2 + 42np}{-7n}$

20. a) $6mn + 12m$

d) $-32hk - 12k^2$

21. a) $4x + 2y$

d) $-8s + 7$

b) $10g - 6fg$

e) $-8t^2 + 12rt$

b) $6h + 3$

e) $-2n - 6p$

c) $-42mp + 49m^2$

f) $-8gh + 5g^2$

c) $-3p + 4q$

$$\frac{49r^2y - 28ry^2}{7ry}$$

$$7ry$$

$$\frac{49r^2y}{7ry} - \frac{28ry^2}{7ry}$$

$$7r - 4y$$

Test tomorrow let's review...



A. $2x^2 - 6x + 4$



B.

	Type	variables	coefficient	constant	degree
$-4r + 3$	binomial	r	-4	3	1
$5y^2 - 7 + y$	trinomial	y	5, 1*	-7	2

C. Simplify by combining like terms

$$4r - 4 - 8r^2 + 9r + 6 - 5r + 3 - 3r^2$$

$$-8r^2 - 3r^2 + 4r + 9r - 5r - 4 + 6 + 3$$

$$-11r^2 + 8r + 5$$

↑



Add or Subtract as indicated

A. $(2x^2 - 5x + 7) - (7x^2 - 10x + 15)$

$$2x^2 - 5x + 7 - 7x^2 + 10x - 15$$

$$2x^2 - 7x^2 - 5x + 10x + 7 - 15$$
$$-5x^2 + 5x - 8$$

B. $(-8y^2 + 3y - 7) + (5y^2 - 3) - (9y^2 - 8y)$

$$-8y^2 + 3y - 7 + 5y^2 - 3 - 9y^2 + 8y$$

$$-8y^2 + 5y^2 - 9y^2 + 3y + 8y - 7 - 3$$

$$-12y^2 + 11y - 10$$



Determine the product or quotient

A. $\frac{18 - 27r^2 + 30r}{-3}$

$$\frac{+18}{-3} - \frac{27r^2}{-3} + \frac{30r}{-3}$$
$$-6 + 9r^2 - 10r$$

B. $4(2x^2 - 5x + 6)$

$$8x^2 - 20x + 24$$

C. $\frac{25x^2 - 15x}{-5x}$

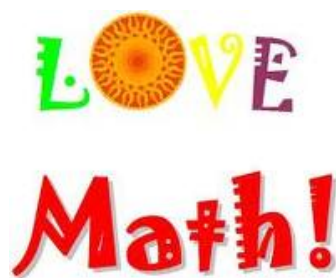
$$\frac{25x^2}{-5x} - \frac{15x}{-5x}$$
$$-5x + 3$$

D. $\frac{-2r(-4r + 10)}{4r}$

$$\frac{8r^2 - 20r}{4r}$$
$$2r - 5$$

E. $\frac{24x^2y - 3x^2y^2}{-3x}$

$$\frac{24x^2y}{-3x} - \frac{3x^2y^2}{-3x}$$
$$-8xy + 1xy^2$$



Test Review Page 259-261

- 1 [a]
- 2
- 5 [a, c, e]
- 10
- 12 [a, c]
- 15 [a, c, e, g]
- 19
- 22 [a, c, e, g, i, k]
- 23 [a, c]
- 27
- 29

Even More Practice

Page 262

1, 2, 5, 6,8