Ch. 20 - BOARD PROBLEMS

write on one line

(1)
$$\frac{1}{8^{-4}} = \frac{2}{A^{-2x}} = \frac{2}{A^{-2x}}$$

Rewrite using positive exponents.

3
$$7^{-4x} = \frac{4}{2^{-2x}} = \frac{4}{2^{-2x}}$$

SIMPLIFY

$$(6)$$
 $[(12^3)^5]^2 =$

$$8) 2x + 8y = 6$$

$$-5x - 20y = -15$$

Ch. 20 - ADDITION & MULTIPLICATION OF POLYNOMIALS.

$$0 x^{2} + 2x + 4$$

$$+ x^{2} + 5x + 6$$

$$2 \times 2 \times 2 - \times - 4 + \times 2 + 6 \times + 6$$

3
$$3x^2 + 5x - 6$$

+ $-x^2 - 6x + 7$

$$4) 2x^{2} + 7x - 8 + x^{2} - 13x + 7$$

$$\bigcirc X-1 \bigcirc 3 \bigcirc 2x+3 \\ \times X-3 \qquad \times \qquad X-4$$

FOIL

$$9(2x+3)(x-7)$$

(10)
$$(2x+4)(x+8)$$
 (10) $(x+8)(x-3)$

Name_____

Solve simultaneous equations by SUBSTITUTION.

1.
$$y = x - 1$$

 $2x - 3y = -1$

Solve simultaneous equations by ELIMINATION.

2.
$$7x + 2y = 24$$

 $8x + 2y = 30$

3.
$$3x - 9y = -18$$

 $5x + 4y = -30$

LESSON PRACTICE

Build.

1.
$$X^2 + 11X + 2$$
 2. $X^2 + 6X + 8$

2.
$$X^2 + 6X + 8$$

3.
$$X^2 - 8$$

Build and add.

4.
$$x^2 - 6x + 3$$

 $+ 3x^2 + 7x - 9$

5.
$$X^2 - 8$$

 $+ X^2 + 6X - 7$

4.
$$x^2 - 6x + 3$$
 5. $x^2 - 8$ 6. $2x^2 + 10x + 7$
 $+ 3x^2 + 7x - 9$ $+ x^2 + 6x - 7$ $+ 2x^2 - 8x - 9$

Build a rectangle and find the area (product).

7.
$$(X + 1)(X + 2) =$$

8.
$$(X + 4)(X + 3) =$$

9.
$$(X + 1)(X + 5) =$$

LESSON PRACTICE 20A

Multiply.

10.
$$3X + 2$$
 11. $5X + 5$ $\times X + 1$ $\times X + 2$

11.
$$5X + 5$$

 $\times X + 2$

12.
$$2X + 1$$

 $\times X + 5$

13.
$$X + 8$$

 $\times 3X + 5$

14.
$$X + 3$$

 $\times 2X + 1$

13.
$$X + 8$$
 14. $X + 3$ 15. $3X + 2$ $\times 3X + 5$ $\times 2X + 1$ $\times 2X + 1$

16.
$$4X + 2$$

$$\times X + 3$$

17.
$$2X - 5$$
 $\times X + 2$

18.
$$3X + 5$$

 $\times 3X - 1$

· Build a counterand tied the area (product)