

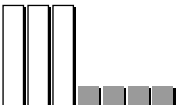


### 5.3 Warm Up

1. Let  represent  $-x$  and  represent  $+1$ . 


- a) What expression does the diagram represent? \_\_\_\_\_
- b) What type of polynomial is this? \_\_\_\_\_

monomial, binomial, trinomial, or polynomial

2. Use a diagram or tiles to show that  $3x - 5x - 3 - 2 = -2x - 5$ .

3. Simplify by combining like terms.  
 $3x^2 - 5x - 8 - 4x^2 + 9x - 2$

Box like terms. Remember that the sign before the term goes with the term.

 4. Complete the table.

Monomial	Opposite	Sum of Monomial and Opposite
a) 5		
b) -3		

5. Evaluate each expression when  $x = 5$ .

a)  $x - 12$

$= 5 - 12$       Substitute.  
 $=$  \_\_\_\_\_

b)  $3x + 4$

$= 3 \times$  \_\_\_\_\_  $+ 4$   
 $=$  \_\_\_\_\_  $+ 4$   
 $=$  \_\_\_\_\_

6. Make the expressions equivalent.

a)  $8 - 3 =$  \_\_\_\_\_       $8 + (-3) =$  \_\_\_\_\_

b)  $4 - 15 =$  \_\_\_\_\_      \_\_\_\_\_  $+$  \_\_\_\_\_  $=$  \_\_\_\_\_