## Lesson 3.2

## Reteach HOMEWORK

**EXAMPLE** Subtracting a Linear Expression

Find the difference (11w + 3) - (5w - 2).

Vertical method: Write the expressions vertically, aligning like terms.

Then subtract by adding the opposite of each term in the second expression.

11w + 3  
- (5w - 2) Add the opposite. 
$$11w + 3 + (-5w) + 2$$

$$6w + 5$$

**Horizontal method:** Group like terms using properties of operations and simplify.

$$(11w + 3) - (5w - 2) = (11w + 3) + (-5w + 2)$$

$$=11w + (-5w) + 3 + 2$$

$$= 6w + 5$$

Add the opposite.

Commutative Property of Addition

Combine like terms.

Find the sum.

1. 
$$(2a-3)+(5a-6)$$

**2.** 
$$(7q+1)+(9q-13)$$

3. 
$$(8-k)+(4+3k)$$

**4.** 
$$(12x-2)+(7x-1)$$

**5.** 
$$(5.7t + 1.9) + (2.6t + 4.1)$$

6. 
$$\left(\frac{3}{4}c - 8\right) + \left(\frac{1}{2}c + 5\right)$$

Find the difference.

7. 
$$(6d-2)-(3d+2)$$

8. 
$$(4-v)-(11+2v)$$

9. 
$$(5h+7)-(9h-6)$$

**10.** 
$$(10x-1)-(4x+5)$$

**11.** 
$$(8.7y - 3.3) - (7.2y - 4.9)$$

**12.** 
$$\left(\frac{2}{5}f + 12\right) - \left(\frac{3}{10}f - 9\right)$$