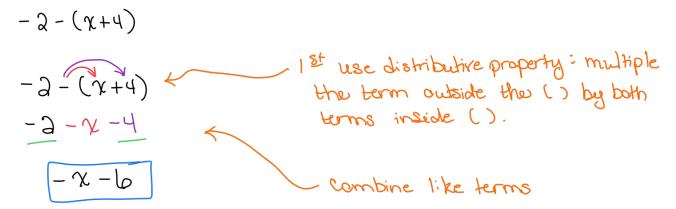
- \* Similar terms: 2 terms with the same variable part (same variables raised to the same powers)
- 1. Simplify using the distributive property.



2. Simplify the following expression.

$$(5a+b) - (2a+1) =$$
  
 $(5a+b) - (2a+1)$   $1^{st}$  use distributive property: multiple  
the term outside the () by both  
 $(5a+b) - 2a - 1$  terms inside ().  
 $3a+5$   
Then combine like terms.

3. Simplify the following expression.

$$4(3y-3) + (5y-3) \qquad \qquad 1^{st} use distributive property: multiple
$$4(3y-3) + (5y-3) \qquad \qquad 1^{st} use distributive property: multiple
the term outside the () by both
$$13y - 13 + 5y - 3 \qquad \qquad terms inside ().$$

$$17y - 15 \qquad \qquad Then combine like terms.$$$$$$

4. Simplify the following expression.

$$3(a-b) - b(a-5)$$

$$3(a-b) - b(a-5)$$

$$3(a-b) - b(a-5)$$

$$4bc term outside the () by both terms inside ().$$

$$-3a+12$$

$$* Combine like terms$$

5. Simplify the following expression.  $5(2\alpha - 1) - (\alpha - 1)$ 

$$5(3a-3) - (a-3)$$

$$= 5(3a-3) - (a-3)$$

$$= 13^{t}$$
 use distributive property: multiple the term outside the () by both terms inside ().
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$$= 10$$

6. Simplify the following expression.

$$-8(3a+1) - 5(2a-1)$$

$$-8(3a+1) - 5(2a-1)$$

$$-24a - 8 - 10a + 5$$

$$-34a - 3$$

$$-34a - 3$$

$$-34a - 3$$

$$-8(3a+1) - 5(2a-1)$$

$$-18t use distributive property: multiple the term outside the () by both terms inside ().$$

7. Evaluate the following expressions when a is 3.

## 8. Evaluate the following expressions when x is -2 and y is 5.

a) 
$$(x + 2y)^{2}$$
  
 $(-2 + 2(5))^{2}$    
 $(-2 + 10)^{2}$    
 $(8)^{2} = 64$    
b)  $x^{2} + 4xy + 4y^{2}$   
 $(-3)^{2} + 4(-2)(5) + 4(5)^{2}$   
 $4 - 40 + 100$   
 $124$