## **Equivalent Expressions Worksheets**

1. Simplify each expression. Verify that your expression is equivalent to the one given by evaluating each expression using x=5.

a) 
$$3x - (-2 - 4x)$$

b) 
$$3x - (2 - 4x)$$

c) 
$$-3x - (-2 - 4x)$$

2. Simplify each expression. Verify that your expression is equivalent to the one given by evaluating each expression for the given value of the variable.

a) 
$$4y - (3 + y)$$
;  
  $y = 2$ 

b) 
$$(2b + 1) - b$$
;  
 $b = -4$ 

c) 
$$(6c-4)-(c-3)$$
;  
 $c=-7$ 

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## **Equivalent Expressions Worksheets**

1. Simplify each expression. Verify that your expression is equivalent to the one given by evaluating each expression using x = 5.

2. Simplify each expression. Verify that your expression is equivalent to the one given by evaluating each expression for the given value of the variable.

a) 
$$4y - (3 + y)$$
;  $y = 2$   
b)  $(2b + 1) - b$ ;  $c = -7$   
 $3y - 3$   
 $3(2) - 3$   
 $6 - 3$   
 $3$   
b)  $(2b + 1) - b$ ;  $c = -7$   
 $5c - 1$   
 $5(-7) - 1$   
 $-35 - 1$   
 $-36$   
4(2)  $- (3 + 2)$   
 $8 - 5$   
 $8 + (-5)$   
 $3$   
(2(-4) + 1)  $- (-4)$   
 $(-8 + 1) + 4$   
 $(-7) + 4$   
 $-3$   
(6(-7) - 4)  $- (-7 - 3)$   
 $(-42 - 4) - (-10)$   
 $-42 + (-4) + (10)$   
 $-46 + 10$   
 $-36$ 

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