Equivalent Expressions Worksheets

1. 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)
$$(d+3d) - (-d+2)$$
; $d=3$

b)
$$(8h-1)-(h+3)$$
; $h=-3$

c)
$$(2g + 9h - 5) - (6g - 4h + 2)$$
; $g = -2$ and $h = 5$

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a)
$$(d+3d)-(-d+2);$$

 $d=3$
b) $(8h-1)-(h+3);$
 $h=-3$

$$5d-2$$

$$7h-4$$

$$7(-3)-4$$

$$-21-4$$

$$13$$

$$(3+3(3))-(-3+2)$$

$$(3+9)-(-1)$$

$$12+1$$

$$(-24-1)-(0)$$

$$(-25)-0$$

$$-25$$

c)
$$(2g + 9h - 5) - (6g - 4h + 2)$$
; $g = -2$ and $h = 5$

$$-4g + 13h - 7$$

$$-4(-2) + 13(5) - 7$$

$$(2(-2) + 9(5) - 5) - (6(-2) - 4(5) + 2)$$

$$(-4 + 45 - 5) - (-12 + (-4(5)) + 2)$$

$$(41 - 5) - (-12 + (-20) + 2)$$

$$(41 + (-5)) - (-32 + 2)$$

$$36 - (-30)$$

$$36 + 30$$

$$66$$