## 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) $(d+3 d)-(-d+2)$;
b) $(8 h-1)-(h+3)$;
$d=3$
$h=-3$
c) $(2 g+9 h-5)-(6 g-4 h+2) ; g=-2$ and $h=5$

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a) $(d+3 d)-(-d+2)$;
b) $(8 h-1)-(h+3)$;
$d=3$
$h=-3$
5d-2
7h-4
5(3) -2
$7(-3)-4$
15-2
$-21-4$
13
$-25$
$(3+3(3))-(-3+2)$
$(3+9)-(-1)$
$12+1$
13
$(8(-3)-1)-(-3+3)$
$(-24-1)-(0)$
(-25) - 0
$-25$
c) $(2 g+9 h-5)-(6 g-4 h+2) ; g=-2$ and $h=5$

$$
\begin{aligned}
& -4 g+13 h-7 \\
& -4(-2)+13(5)-7 \\
& 8+65+(-7) \\
& 73+(-7) \\
& 66
\end{aligned}
$$

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

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

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

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

$$
36-(-30)
$$

$$
36+30
$$

