

Q1 HW2 *Work on loose leaf except as noted*

Date _____ Period _____

Evaluate each function.

1) $w(x) = x^2 - 2$; Find $w(4x)$

2) $f(n) = 4n + 3$; Find $f(-n)$

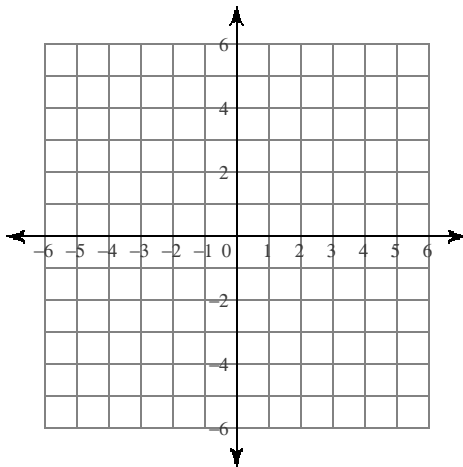
Perform the indicated operation.

3) $f(n) = 4n + 2$
 $g(n) = 2n - 2$
 Find $f(g(n))$

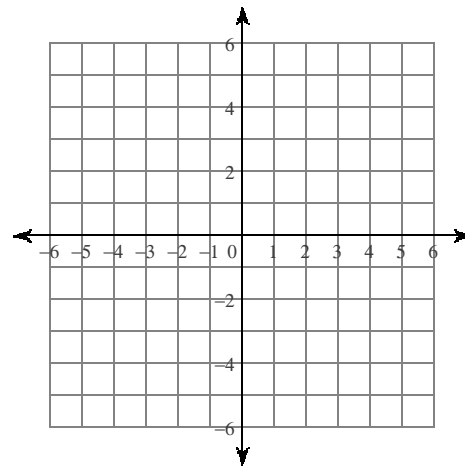
4) $h(n) = n + 5$
 $g(n) = n^2 + 4n$
 Find $h(g(n))$

Sketch the graph of each line. Use this worksheet for these problems.

5) $y = 2x + 3$



6) $y = -\frac{3}{4}x - 5$



Write the slope-intercept form of the equation of the line through the given point with the given slope.

7) through: $(5, -1)$, slope = $\frac{2}{5}$

8) through: $(0, 2)$, slope = $\frac{6}{5}$

9) through: $(4, 4)$, slope = $\frac{3}{2}$

10) through: $(4, -1)$, slope = $\frac{1}{2}$

Write the slope-intercept form of the equation of the line through the given points.

11) through: $(0, -2)$ and $(1, -2)$

12) through: $(0, -1)$ and $(-2, -3)$

13) through: $(5, 3)$ and $(0, 0)$

14) through: $(1, -1)$ and $(0, 2)$

15) through: $(2, 0)$ and $(0, 1)$

16) through: $(-4, 4)$ and $(1, -2)$