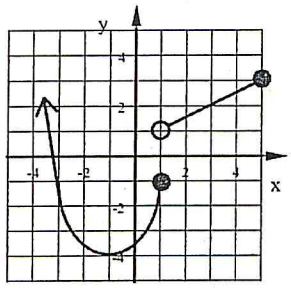
# Bellwork Alg 2A Thursday, October 13, 2016

1. State the Domain and Range of the graph below.




Domain:

Range:

2. Use these functions: $g(x) = x^2 + 4x$ $h(w) = \frac{4w+13}{w-2}$ $k(c) = 3c - 1$

a) Find $h(-7)$. Simplify your answer .

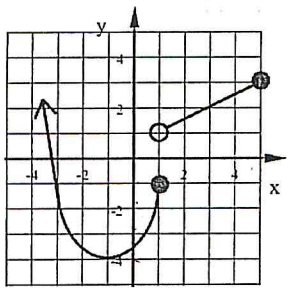
b) Find $5g(3)$

c) Find $c$ if $k(c) = 23$.

d) Find $g(m-3)$. Simplify your answer.

# Bellwork Alg 2A Thursday, October 13, 2016 ANSWERS

1. State the Domain and Range of the graph below.




Domain: $x \leq 5$

Range: $y \geq -4$

2. Use these functions: $g(x) = x^2 + 4x$ $h(w) = \frac{4w+13}{w-2}$ $k(c) = 3c - 1$

a) Find $h(-7)$. Simplify your answer .

$\frac{4(-7)+13}{(-7)-2} = \frac{-28+13}{-7-2} = \frac{-15}{-9} = \frac{5}{3}$

b) Find $5g(3)$

$g(3) = (3)^2 + 4(3) = 9 + 12 = 21$

$5g(3) = 5(21) = 105$

c) Find $c$ if $k(c) = 23$.

$23 = 3c - 1$

$+1 \quad +1$

$\frac{24}{3} = \frac{3c}{3}$

$c = 8$

d) Find $g(m-3)$. Simplify your answer.

$g(m-3) = (m-3)^2 + 4(m-3)$

$= m^2 - 6m + 9 + 4m - 12$

$= m^2 - 2m - 3$