# Algebra II   Worksheet #2   Unit 3   Selected Solutions
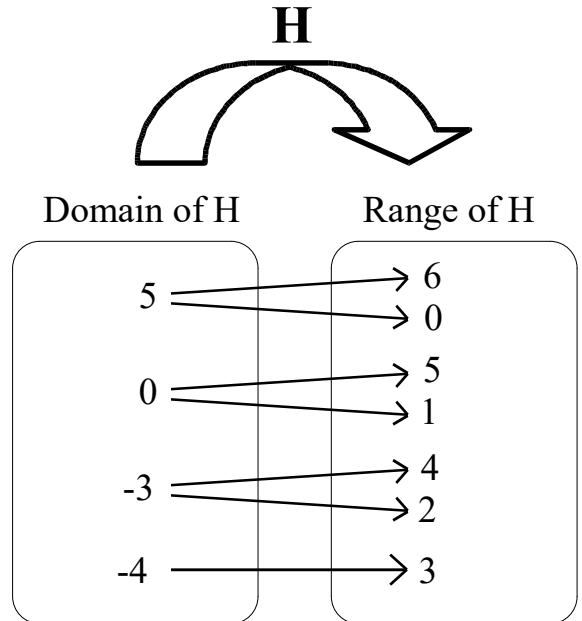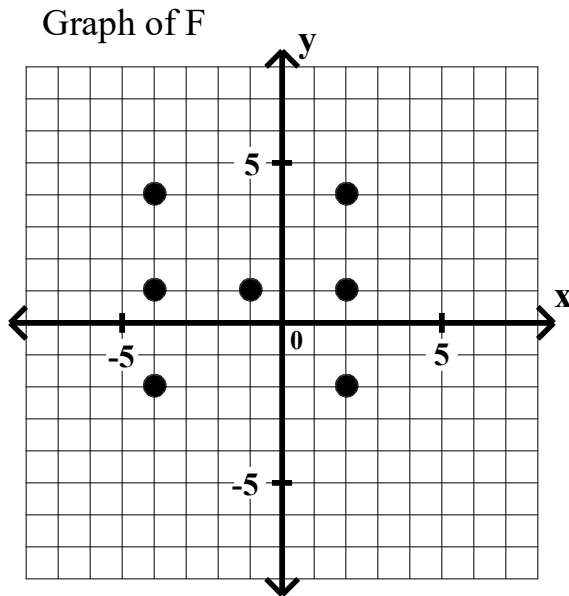
Determine whether or not the relation given in each problem is a function. (Write yes or no.)

__Yes__   2.   B = { ( -3 , 4 ) , ( -2 , 3 ) , ( -1 , 2 ) , ( 0, 1 ) , ( 1 , 0 ) , ( 2 , -1 ) , ( 3 , -2 ) }

__No__   4.  relation F                                    __No__   6.  relation H

Graph of F

**H**

Domain of H          Range of H

Given:  Functions f = { (x,y) : $y = -5x + 2$ } and g = { (x,y) : $y = 2x^2 - x$ }.  Evaluate each of the following.

8.  f(0) = __2__            10.  g(-4) = __36__            12.  g(6) = __66__ .
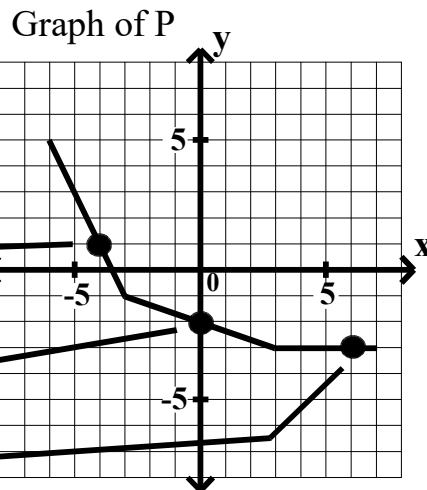
Given:  Functions H and L defined by the equation $H(x) = 3x - 5$ and $L(x) = -5x^2 + 5x$. Evaluate each of the following.

14.  H(0) = __-5__            16.  L(-4) = __-100__            18.  L(6) = __-150__ .

Given the function P defined by this graph.          Graph of P

19.  What is the domain of P?   __[ -6, 7 ]__

20.  What is the range of P?   __[ -3 , 5 ]__

Evaluate each of the following.

21.  P(-4) = __1__   **(-4, 1)**

22.  P(0) = __-2__   **(0, -2)**

23.  P(6) = __-3__   **(6, -3)**