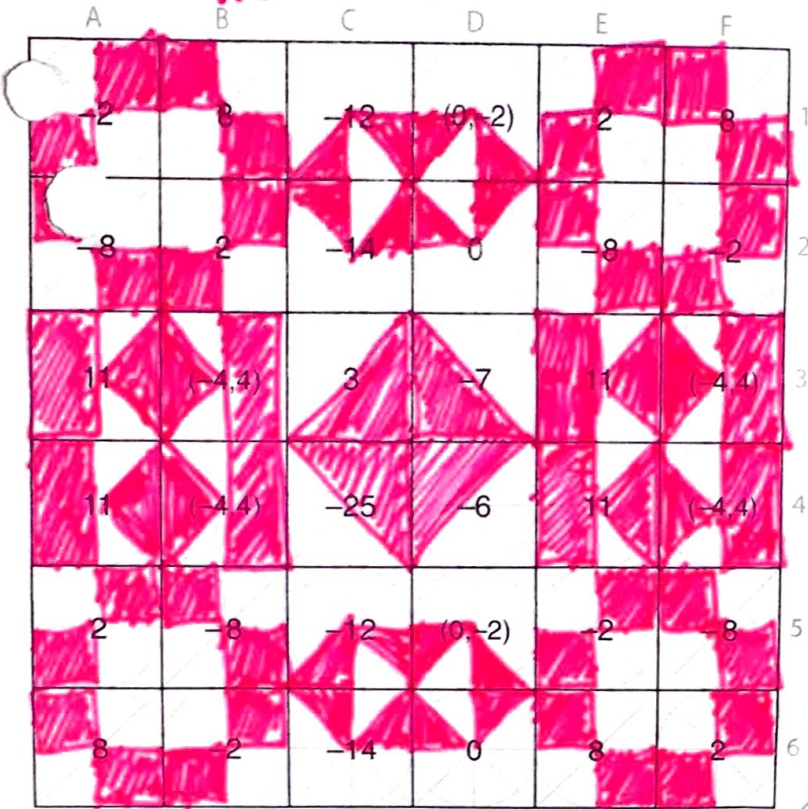


Activity 19


HW-DAY 1


Name: _____





Functions are often described by equations, like $y = 2x - 5$ or $f(x) = 2x - 5$. $f(2)$ is the value of y if x equals 2. Thus, $(2, -1)$ is an ordered pair of $f(x) = 2x - 5$.


Find the indicated value of each function.


 $f(x) = x^2 - 2x + 3$
 $f(4) = 11$


 $g(x) = -2x^2 - 5$
 $g(-1) = -7$


 $h(x) = -x^2 + 3x - 2$
 $h(-2) = -12$


 $h(x) = 2x^2 - x - 5$
 $h(-1) = -2$

 $f(x) = 4x^2 - x - 6$
 $f(2) = 8$

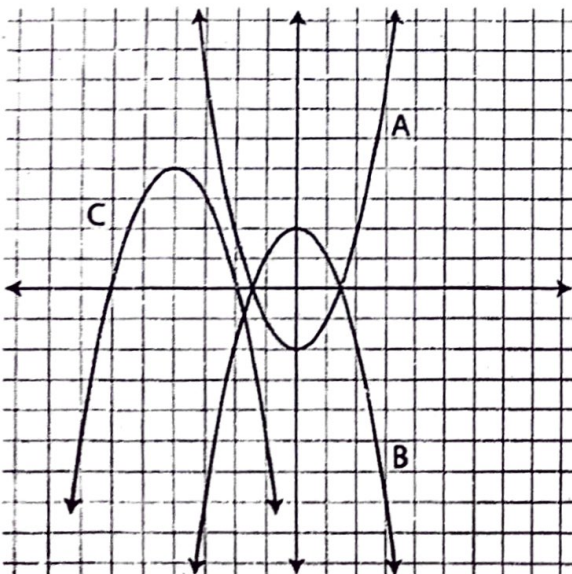
 $g(x) = -2x^2 + 7x - 3$
 $g(-2) = -25$


 $h(x) = -(x + 2)^2 + 3$
 $h(1) = -6$


 $f(x) = 2(x - 3)^2$
 $f(2) = 2$


 $g(x) = -3(x - 1)^2 - 5$
 $g(0) = -8$


Graphs A, B, and C to the left represent functions.




 What are the coordinates of the lowest point of A? $(0, -2)$

 What are the coordinates of the highest point of C? $(-4, 4)$

 In graph A, what positive x value corresponds to a y value of 7? $x = 3$

 If the equation of graph C is $y = -(x + 4)^2 + 4$, what is the value of y if x equals -2 ? $y = 0$

 If the equation of graph B is $y = -x^2 + 2$, what is the value of y if x equals 4? $y = -14$