Math 2 Practice Final: Part 2 Name: _ Hour: Directions: Read all instructions completely. Show all of your work. No points will be given without appropriate work being shown and answers indicated. Solve the following system of equations, show all your work. $y = -x^2 - 5$ $y = x^2 + 10x + 3$ (use the graph if you would like) 5= x2+10 x +3 2 7 Y 10 X -0= 10 X Given the equation: $f(x) = -3x^2 + 5$ Find the average rate of change over the interval [-1,3] A = R (y = y (-1) + G = 2 2 +22 **'**S 2. 2+22-A.R.C $y=-3(3)^2+5=-22$ 3. Given the following graph, find the average rate of change over the interval [2, 5] $\frac{4-1}{2-5}$ (2,4) (5.1 4. Write a quadratic equation given the graph below. points (X+3)` jn cal(2. 1. 0.5 \hat{x} -0.5

$A = L \cdot W$





Match the equation to its graph and explain your decision.



10. Write the coordinates of the points:

$$P(6,8) = Q(-8,0) = R(4,0) = S(0,-48)$$