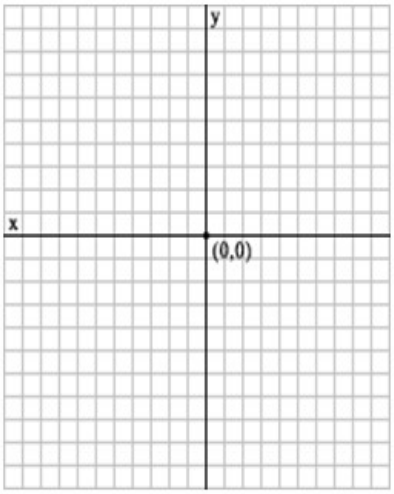
Name:_____ Graphing Quadratics Review Worksheet

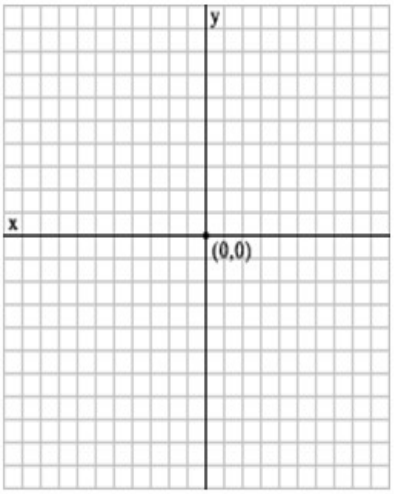
Pick the method of your choice to graph.

1. $y = 2x(x-5)$



domain:_____range:_____

2. $y = -2(x+3)^2 - 1$



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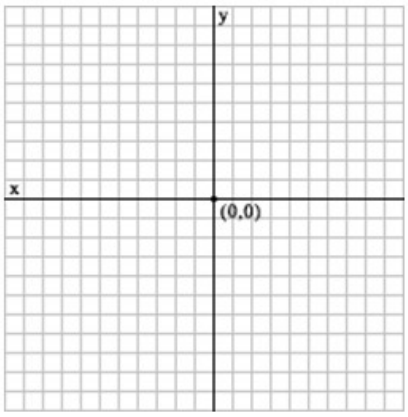
3. $y = x^2 + 6x + 9$



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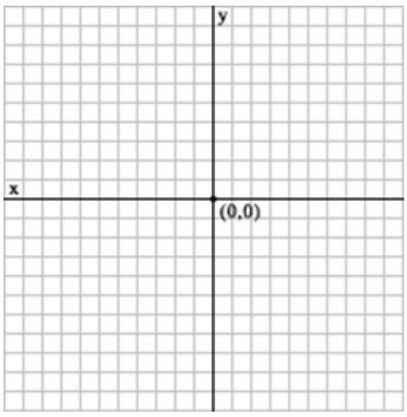
4. $y = \frac{1}{2}x^2 - 5x$



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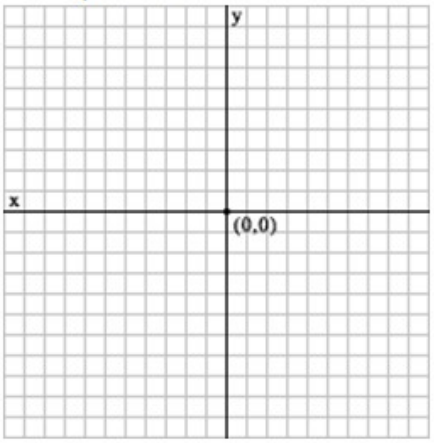
5. $y=\frac{1}{4}(x+9)(x-2)$



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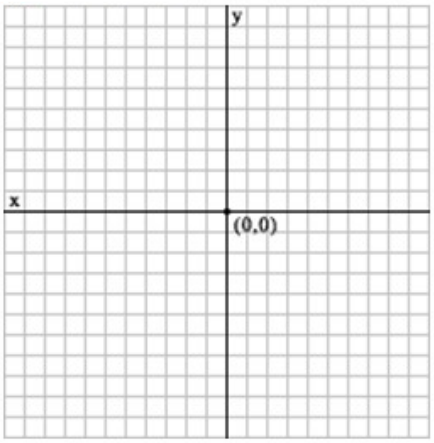
6. $y= (x - 1)^2 + 2$



domain:_____range:_____

Given the following function, which method would work best to graph and explain why?

7. $y=-3(x+5)(x+1)$

8. $y = -3x^2 + x - 1$

9. $y = 5(x - 3)^2 + 2$

10. Given the following graph what characteristics can you tell me about it with out graphing? $y = -\frac{1}{2}x^2 + 4x + 7$

11. The equation $h = -16t^2 + 58t + 3$ models the projection of a baseball being hit. Determine how high and far the baseball traveled?

12. A basketball player passes the ball to a teammate who catches it 11 ft above the court, just above the rim of the basked, and slam-dunks it though the hoop. The first player releases the ball 5 ft above the court with initial velocity of 21ft/sec How long is the ball in the air before being caught.

$$h = -16t^2 + v_0t + h_0$$