

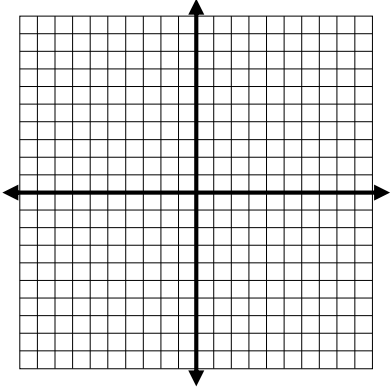
Algebra 1

Practice Quiz 9.1-9.4

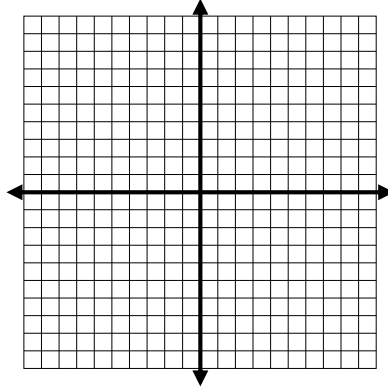
NAME _____

Graph each function and determine the domain and range. (3 Points)

1. $y = x^2 + 4x + 6$



2. $y = -2x^2 - 4x - 3$



Find the vertex, the equation of the axis of symmetry, the y-intercept, circle minimum(Mi) or maximum(Ma), and determine its value. (4 Points)

3. $y = x^2 - 16$

4. $y = -x^2 + 6x - 1$

1. D=_____ R=_____

2. D=_____ R=_____

3. V=_____ AS=_____

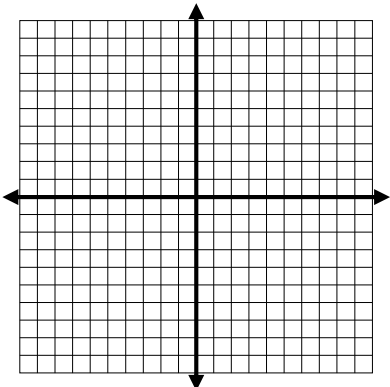
y-int=_____ Mi/Ma=_____

4. V=_____ AS=_____

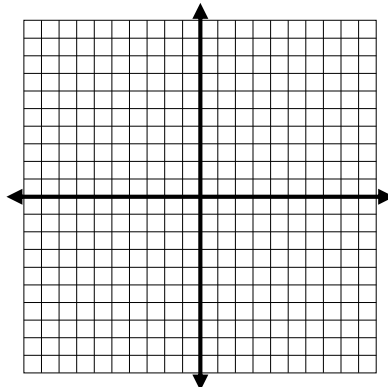
y-int=_____ Mi/Ma=_____

Solve each equation by graphing. (3 Points)

5. $y = x^2 + x - 12$



6. $y = 2x^2 - 8x + 7$



5. _____

6. _____

Points(20) _____

Describe how the graph of each function is related to the graph of $f(x) = x^2$. (2 Points)

7. $y = x^2 + 4$

8. $y = -5x^2$

9. $y = 4x^2 - 6$

10. $y = -\frac{1}{3}x^2 + 2$

7. _____

8. _____

9. _____

Find the value of c that makes each trinomial a perfect square. (2 Points)

11. $x^2 + 10x + c$

12. $x^2 - 5x + c$

10. _____

11. _____

12. _____

Solve each equation by completing the square. (4 Points)

13. $x^2 - 10x - 24 = 0$

14. $x^2 + 16x - 17 = 0$

13. _____

14. _____

15. _____

16. _____

Points (28) _____

15. $x^2 - 6x = 27$

16. $2x^2 - 18x + 11 = -15$