Algebra 1 8.4B Worksheet
Transformations of Quadratics

Name _____
Per ____ Date _____

Describe the transformation represented by each equation.

1. $y=(x-3)^2+8$	2. $y=-(x+7)^2-1$	3. $y=2(x+4)^2+3$
4. $y=-2(x-9)^2-5$	5. $y=3(x+2)^2-7$	6. $y=-3(x-1)^2+5$
7. $y=\frac{1}{4}(x+3)^2+2$	8. $y=\frac{-1}{4}(x-9)^2+5$	9. $y=\frac{1}{2}(x+5)^2-3$
10. $y=2(x-4)^2$	11. $y=-(x+8)^2$	12. $y=x^2-7$
13. $y=2x^2+3$	14. $y=-3x^2+12$	15. $y=2(x+1)^2-7$

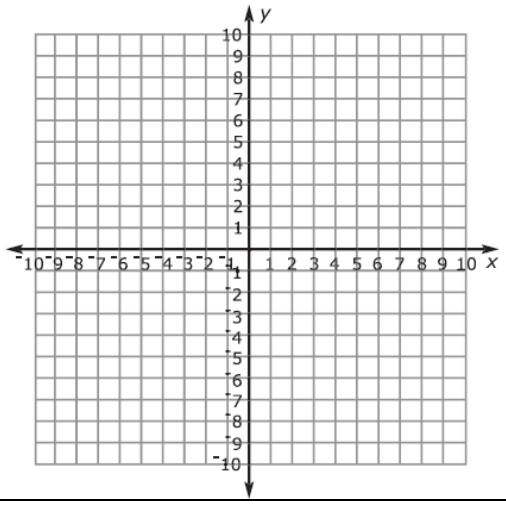
Calculate the vertex of the parabola given by each equation:

16. $y=3x^2-18x+2$

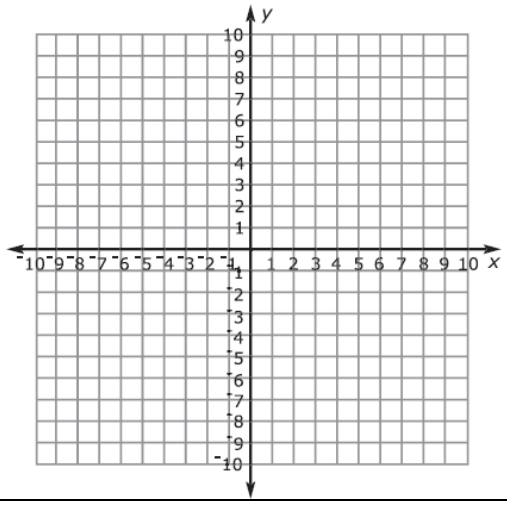
17. $y=-x^2-8x+10$

Graph each quadratic

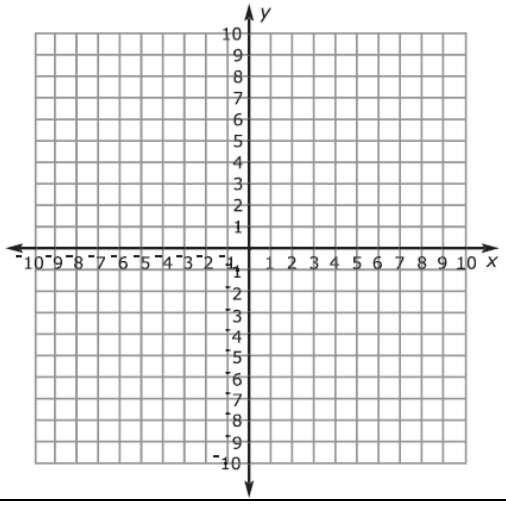
18. $y = 2(x+8)^2 - 4$



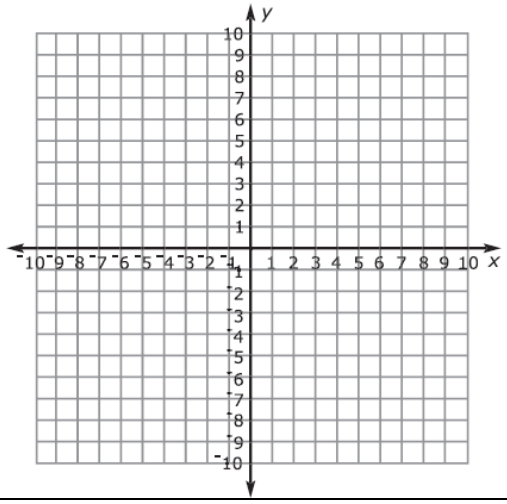
19. $y = -(x+8)^2$



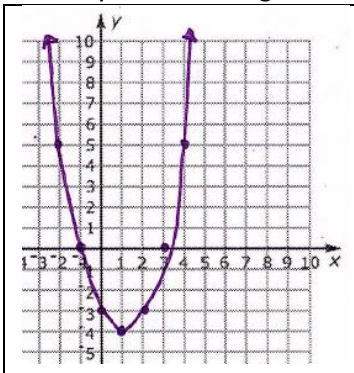
20. $y = x^2 - 7$



21. $y = \frac{1}{2}(x+5)^2 - 3$



Identify the following for each graph:



22. Vertex:

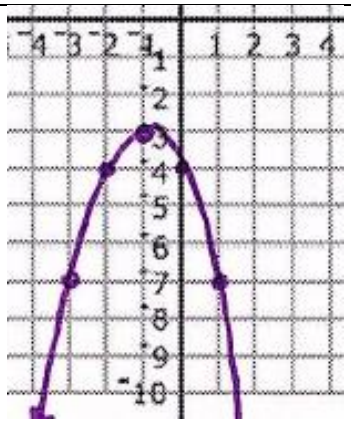
Zeros:

Axis of symmetry:

Max/Min:

Domain :

Range:



23. Vertex:

Zeros:

Axis of symmetry:

Max/Min:

Domain :

Range: