1. Identify the indicated information for each of the following.

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

opens: up down _____

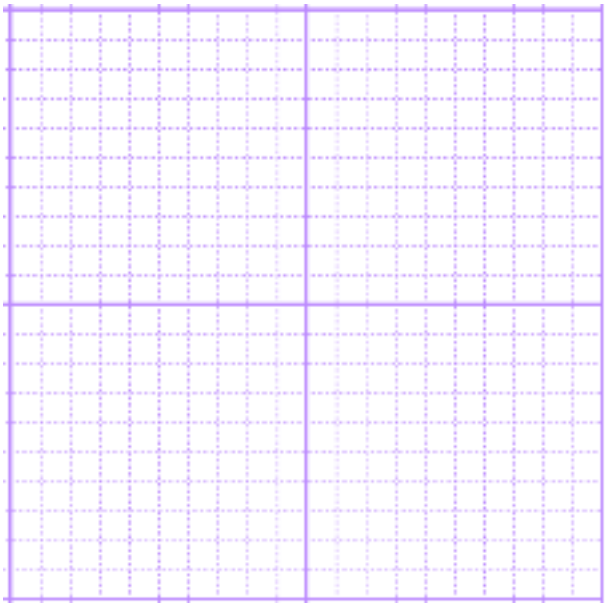
vertex (x , y) max min _____

obtuse acute standard _____

$\Delta x =$ _____

Domain: _____

Range: _____



2. Identify the indicated information for each of the following.

$y = -\frac{1}{3}(x-1)^2 + 7$

opens: up down _____

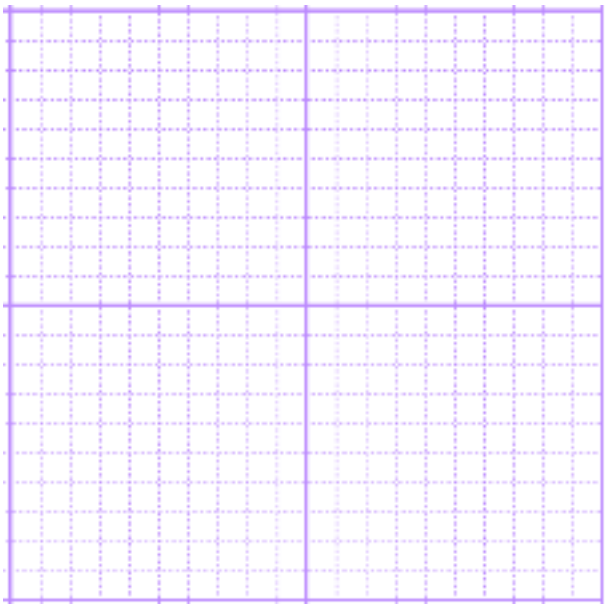
vertex (x , y) max min _____

obtuse acute standard _____

$\Delta x =$ _____

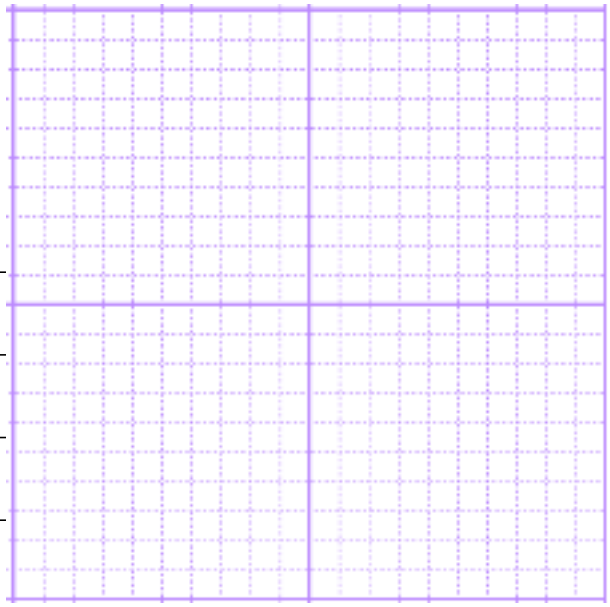
Domain: _____

Range: _____



3. Identify the indicated information for each of the following.

$y = \frac{1}{2}(x-3)^2 - 6$



opens: up down _____

vertex (x , y) max min _____

obtuse acute standard _____

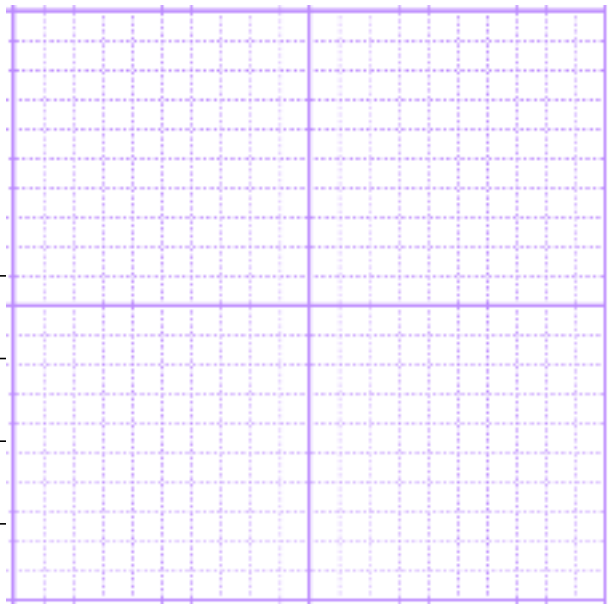
Δx = _____

Domain: _____

Range: _____

4. Identify the indicated information for each of the following.

$y = \frac{1}{4}(x+2)^2 - 8$



opens: up down _____

vertex (x , y) max min _____

obtuse acute standard _____

Δx = _____

Domain: _____

Range: _____

Completing the Square

Put each equation in the "graphing form"

$y = a(x-h)^2 + k$

5. $y = -\frac{1}{4}x^2 - 3x - 7$

$y = a(x-h)^2 + k$ _____

opens: up down _____

vertex (x , y) max min _____

obtuse acute standard _____

$\Delta x =$ _____

6. $y = 5x^2 + 40x + 22$

$y = a(x-h)^2 + k$ _____

opens: up down _____

vertex (x , y) max min _____

obtuse acute standard _____

$\Delta x =$ _____

7. $y = \frac{1}{3}x^2 + 2x - 6$

$y = a(x-h)^2 + k$ _____

opens: up down _____

vertex (x , y) max min _____

obtuse acute standard _____

$\Delta x =$ _____

8. $y = 6x^2 + 24x + 19$

$y = a(x-h)^2 + k$ _____

opens: up down _____

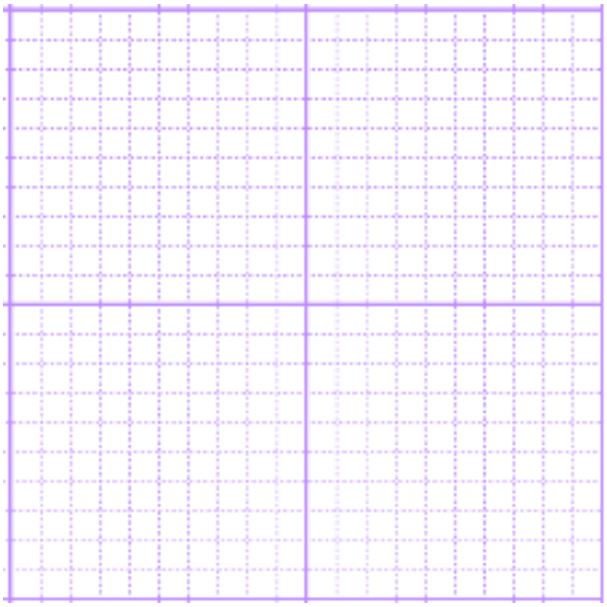
vertex (x , y) max min _____

obtuse acute standard _____

$\Delta x =$ _____

Graphing "sideways" parabolas

9. $x = \frac{-1}{2}y^2 - 3y + 4\frac{1}{2}$



opens: right left _____

vertex (x , y) max min _____

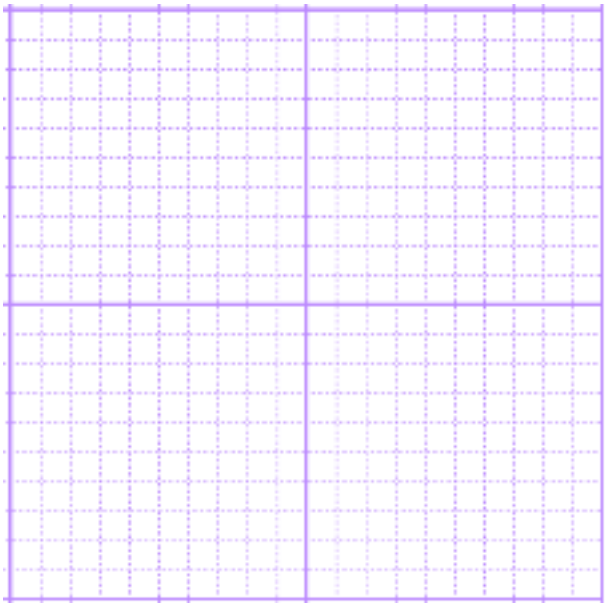
obtuse acute standard _____

$\Delta y =$ _____

Domain: _____

Range: _____

10. $x = -2y^2 - 8y + 5$



opens: right left _____

vertex (x , y) max min _____

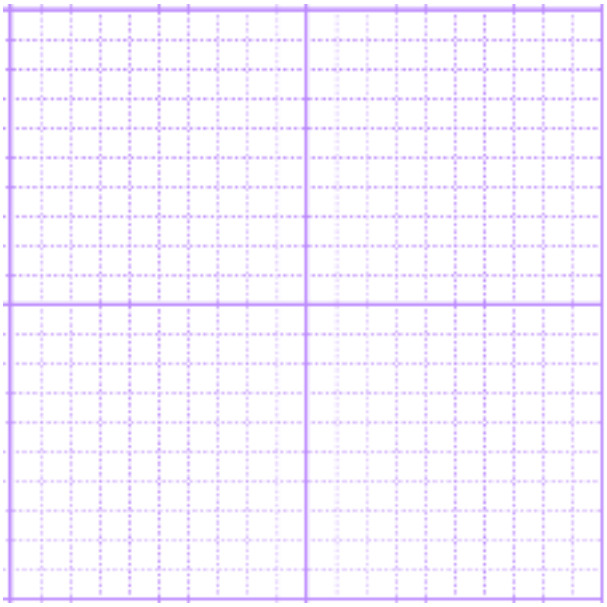
obtuse acute standard _____

$\Delta y =$ _____

Domain: _____

Range: _____

11. $x = -y^2 + 6y - 5$



opens: right left _____

vertex (x , y) max min _____

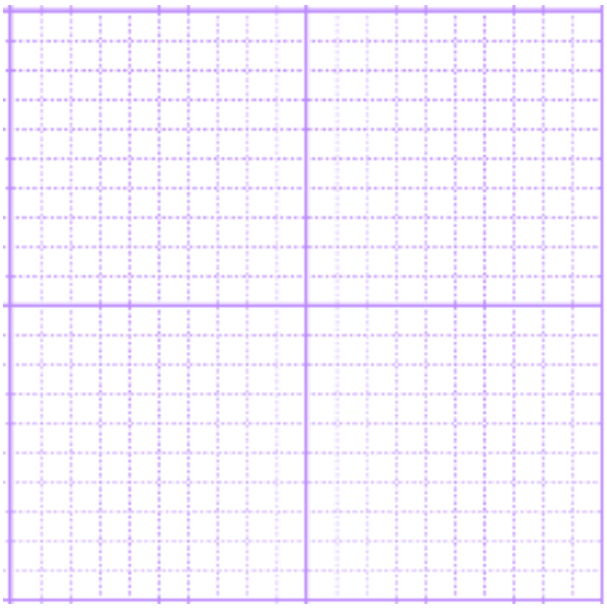
obtuse acute standard _____

$\Delta y =$ _____

Domain: _____

Range: _____

12. $x = \frac{1}{2}y^2 - y - 7$



opens: right left _____

vertex (x , y) max min _____

obtuse acute standard _____

$\Delta y =$ _____

Domain: _____

Range: _____