

PreCalculus
WS: Pre 9.1/9.1 Quiz Review

Name _____
Date _____ Block _____

Find the standard equation of the circle or parabola.

1.) $x^2 + y^2 + 6x - 4y = 3$

2.) $y^2 - 12x + 18y + 153 = 0$

3.) $x^2 + y^2 - 8x - 6y - 39 = 0$

4.) $x^2 - 8x - 8y - 40 = 0$

5.) $x^2 + y^2 - 16x + 20y + 124 = 0$

6.) $3x^2 + 30x + y + 79 = 0$

7.) $x^2 - 12x + 16y = 28$

8.) $x^2 + y^2 + 6x - 4y - 15 = 0$

9.) $y^2 + 8y + 8x + 16 = 0$

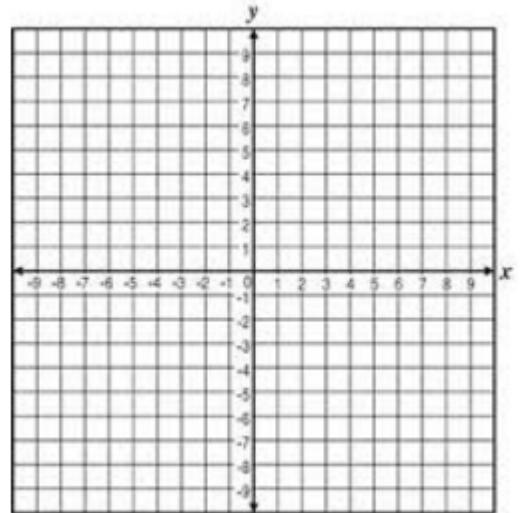
Coordinate of Vertex:

Direction it opens:

Axis of Symmetry:

Coordinates of Focus:

Equation of Directrix:



10.) $4x^2 - 40x + 48y + 4 = 0$

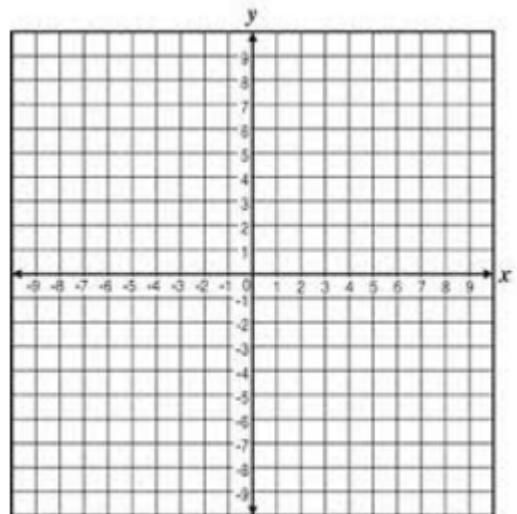
Coordinate of Vertex:

Direction it opens:

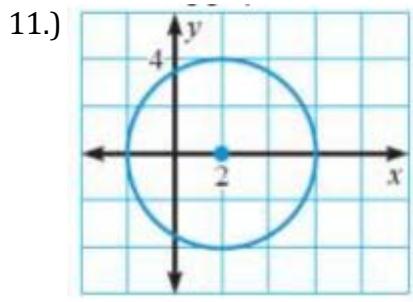
Axis of Symmetry:

Coordinates of Focus:

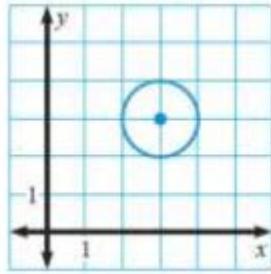
Equation of Directrix:



Write the equation of the circle.



12.)



Write the equation of the circle.

13.) Center: (5, -7) and Point: (13, 8)

14.) Endpoints of Diameter: (-4, 7) and (6, -9)

Write the equation of parabola.

15.) Focus (4, -5) and directrix: $y = -9$

16.) Vertex: (4, -3) and Focus: (4, 1)

17.) Vertex: (2, 0) passing through (-6, 8) opens horizontally

18.) Vertex: (-2, 1) passing through (2, -1) opens vertically