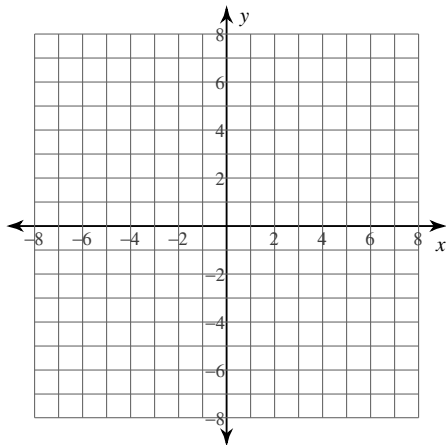


Assignment

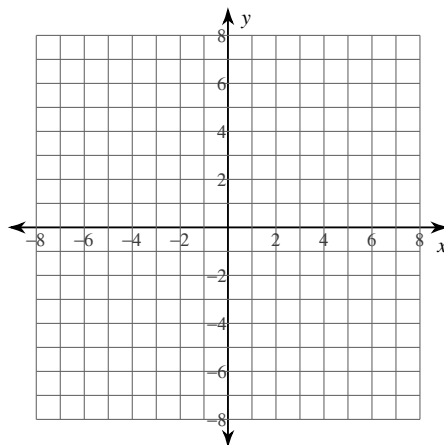
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Identify the vertex, focus, and directrix of each. Then sketch the graph.

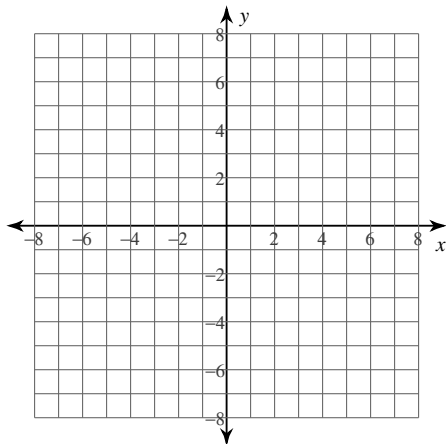
1) $x = -2y^2 + 12y - 13$



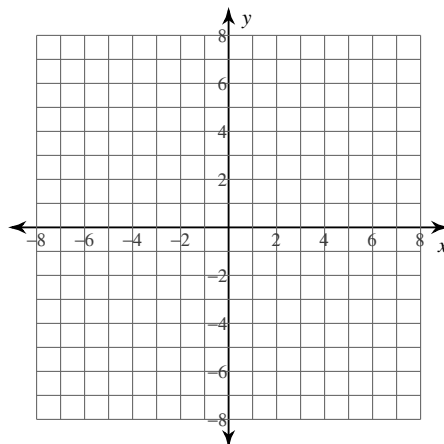
2) $x = \frac{1}{3}y^2 + \frac{10}{3}y + \frac{25}{3}$



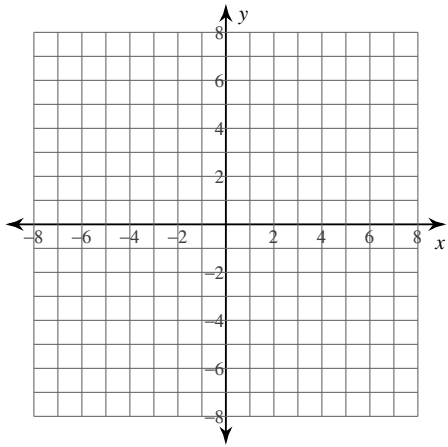
3) $x = -y^2 + 10y - 20$



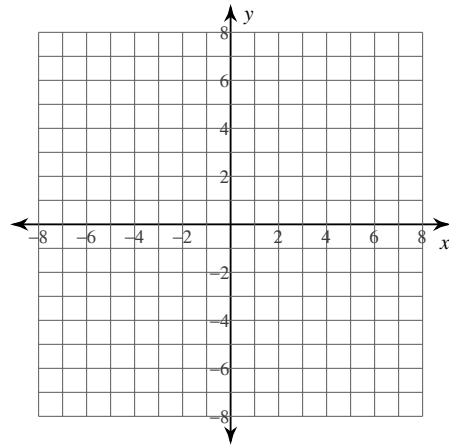
4) $x = -\frac{1}{4}(y + 3)^2 + 1$



5) $x = (y + 1)^2 - 5$

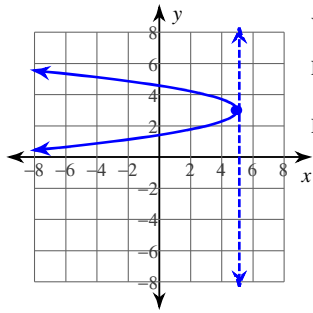


6) $x = -2(y + 4)^2 - 2$



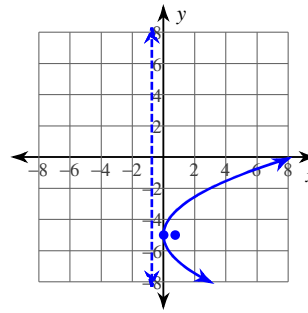
Answers to Assignment (ID: 1)

1)



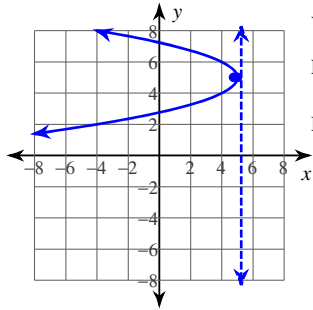
Vertex: $(5, 3)$
 Focus: $\left(\frac{39}{8}, 3\right)$
 Directrix: $x = \frac{41}{8}$

2)



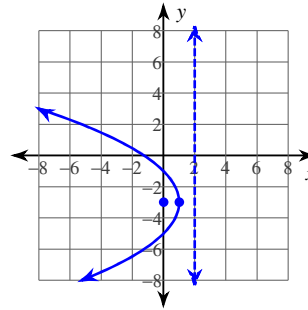
Vertex: $(0, -5)$
 Focus: $\left(\frac{3}{4}, -5\right)$
 Directrix: $x = -\frac{3}{4}$

3)



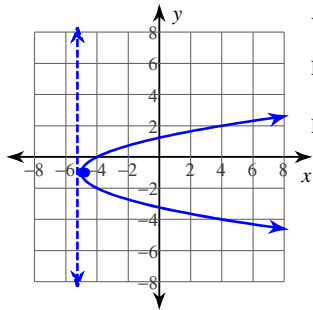
Vertex: $(5, 5)$
 Focus: $\left(\frac{19}{4}, 5\right)$
 Directrix: $x = \frac{21}{4}$

4)



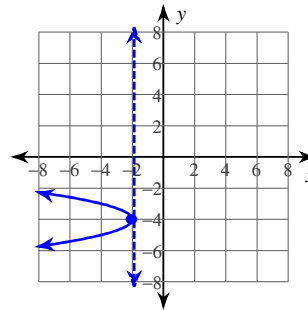
Vertex: $(1, -3)$
 Focus: $(0, -3)$
 Directrix: $x = 2$

5)



Vertex: $(-5, -1)$
 Focus: $\left(-\frac{19}{4}, -1\right)$
 Directrix: $x = -\frac{21}{4}$

6)



Vertex: $(-2, -4)$
 Focus: $\left(-\frac{17}{8}, -4\right)$
 Directrix: $x = -\frac{15}{8}$