

14.

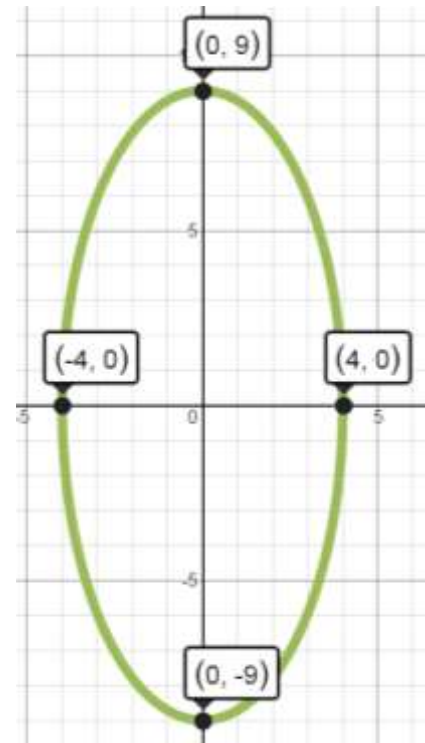
$$\frac{x^2}{16} + \frac{y^2}{81} = 1$$

$$c^2 = a^2 - b^2$$

$$c^2 = 81 - 16 = 65$$

$$c = \sqrt{65}$$

Foci: $(0, \pm\sqrt{65})$



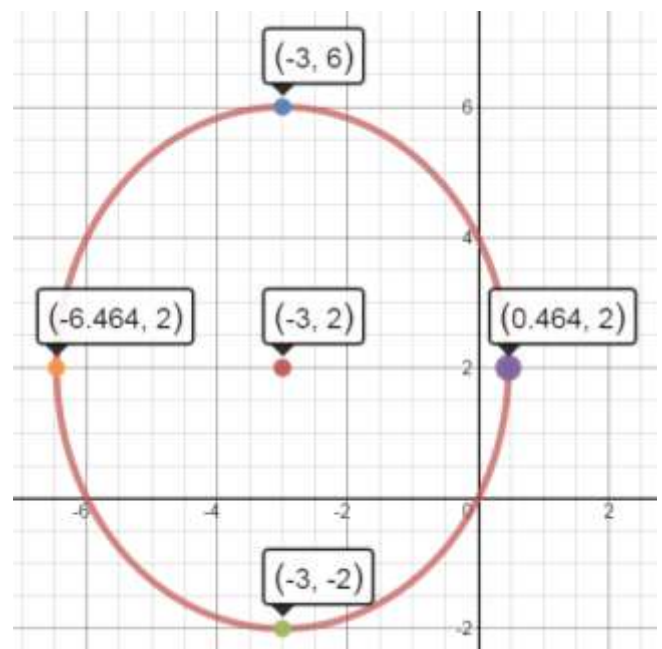
16.
$$\frac{(x+3)^2}{12} + \frac{(y-2)^2}{16} =$$

$$c^2 = a^2 - b^2$$

$$c^2 = 16 - 12 = 4$$

$$c = 2$$

Foci: $(-3, 4)$ and $(-3, 0)$



18.

$$\frac{(x+5)^2}{\frac{9}{4}} + \frac{(y-1)^2}{1} =$$

$$c^2 = a^2 - b^2$$

$$c^2 = 2.25 - 1 = 1.25$$

$$c = \frac{\sqrt{5}}{2}$$

Foci: $(-5 + \frac{\sqrt{5}}{2}, 1)$ and $(-5 - \frac{\sqrt{5}}{2}, 1)$

