

(LFT)

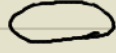
$$2. \frac{x^2}{9} + y^2 = 1$$

$$a=3 \quad b=1 \quad c=2\sqrt{2} \quad h=0 \quad k=0$$

≈ 2.8

$$\frac{x^2}{9} + \frac{y^2}{1} = 1$$

CENTER: $(h, k) = (0, 0)$

MAJOR AXIS 

LENGTH MAJOR AXIS = $2a = 2(3) = 6$

LENGTH MINOR AXIS = $2b = 2(1) = 2$

FOCI: $(h+c, k)$ $(h-c, k)$

$(0+2\sqrt{2}, 0)$ $(0-2\sqrt{2}, 0)$

$(2.8, 0)$ $(-2.8, 0)$

$(2.8, 0)$ $(-2.8, 0)$

VERTICES: $(h+a, k)$ $(h-a, k)$

$(0+3, 0)$ $(0-3, 0)$

$(3, 0)$ $(-3, 0)$

$h=0$ ← $\frac{(x-0)^2}{(3)^2} + \frac{(y-0)^2}{(1)^2} = 1$ → $k=0$

\downarrow \downarrow

$a=3$ $b=1$

$c = \sqrt{a^2 - b^2}$ $c = \sqrt{8}$

$c = \sqrt{3^2 - 1^2}$ $c = 2\sqrt{2}$

$c = \sqrt{9 - 1}$

