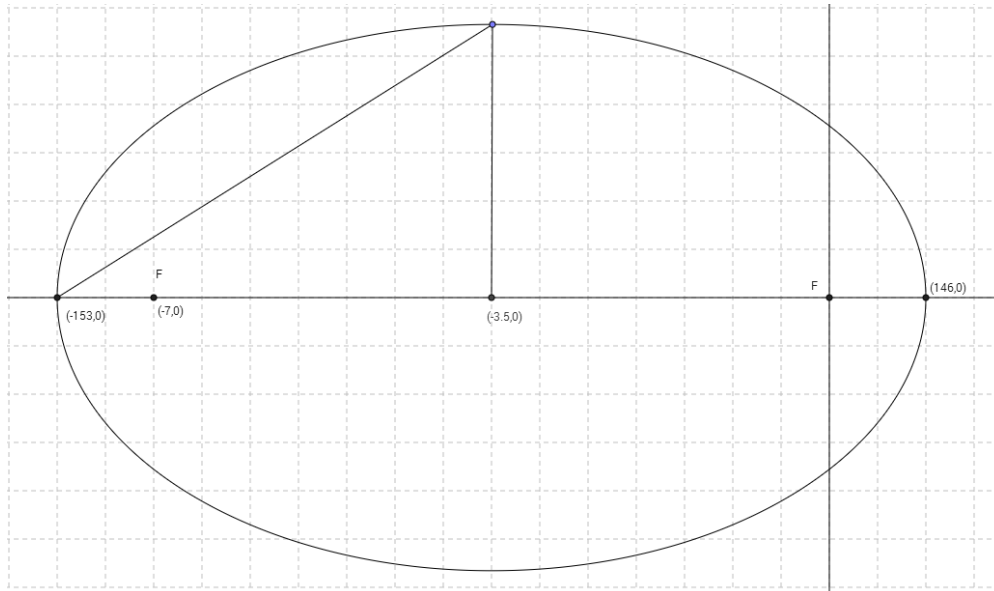


Earth (x and y to million km)

$$\frac{(x-x_1)^2}{a^2} + \frac{(y-y_1)^2}{b^2} = 1$$

$$\frac{(x+3.5)^2}{12.25} + \frac{(y-y_1)^2}{b^2} = 1$$



Comet (x and y to million km)

when $(x=0, y=320)$

$$-y^2 = 4a(x-320)$$

$$-320^2 = 4a(0-320)$$

$$-102400 = 4a(-320)$$

$$-102400 = -1280a$$

$$80 = a$$

$$y^2 = -320(x-320)$$

1