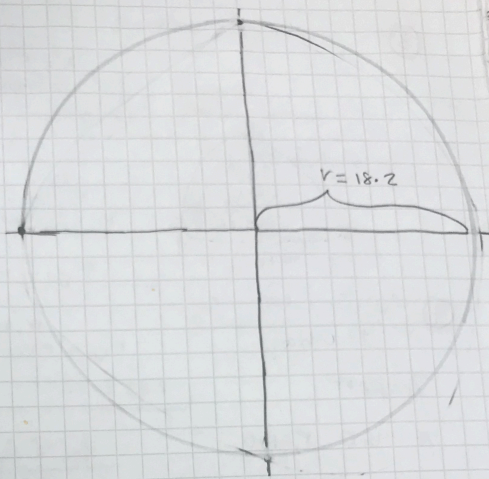


- Diameter 30.4 cm

$$x^2 + y^2 = 331.24$$

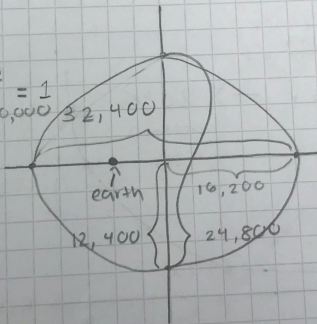
or

$$x^2 + y^2 = \frac{8281}{25}$$

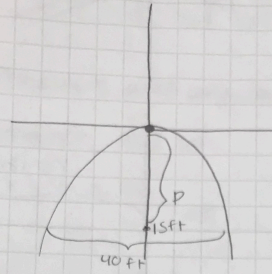


2

$$\frac{x^2}{262,440,000} + \frac{y^2}{153,760,000} = 1$$



3



$$x^2 = 4(15)y$$

$$x^2 = 60y$$

4

$$t = 0 \text{ hours}$$

$$A = pe^{rt}$$

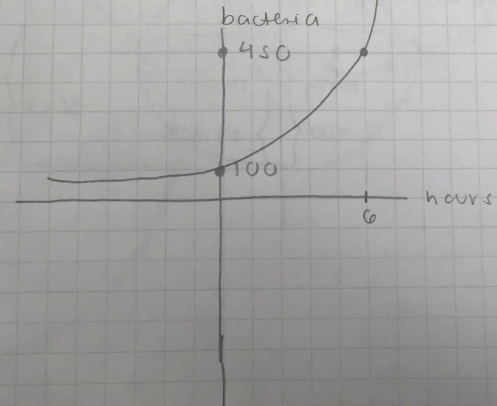
$$A = 450 \quad P = 100$$

$$450 = 100e^{r(6)}$$

$$\ln 4.50 = 6r$$

$$\frac{1.504077}{6} = r$$

$$0.25 = r \rightarrow 25\%$$



$$\textcircled{S} \quad M = \log \frac{I}{S}$$

$$M = \log I - \log S$$

Standard  $M = \log I$

$$4.6 = \log I - \log S$$

$$M = \log \frac{I}{S}$$

$$M = \log I - \log S$$

$$I = 10^M + 10^{-4}$$

$$I = 10^{4.6} + 10^{-4}$$

coast of Chile  $\rightarrow 4.9$

$$I = 10^{4.9} + 10^{-4}$$

$$I = 79432.8235$$

Intensity  
Sakoman Islands  $\rightarrow$

$$I = 39810.7171$$

Southeast  
Honshu, Japan = 6.0

$$I = 10^6 + 10^{-4}$$

$$I = 1000000.0001$$

## GRAPH

