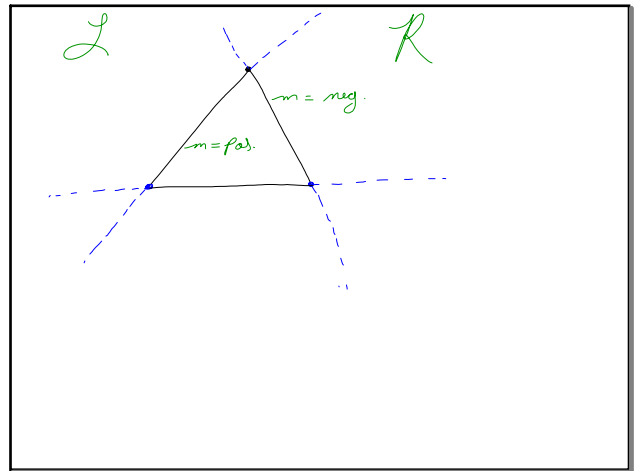


February 25, 2015

- SSC #3 - Friday
- Desmos "Star" - Friday

Feb 25-9:50 AM



Feb 25-9:56 AM

Athens Pop 2014  
73, 142

Athens Pop 1964  
28, 916

Feb 25-10:13 AM

(year, Pop)

⊕ (2014, 73, 142)

⊙ (1964, 28, 916)

Let 1964 = 0  
2014 = 50

Pop =  $m \cdot \text{year} + b$

$m = \frac{(73,142) - (28,916)}{50 - 0} = \frac{44,226}{50} = \frac{22,113}{25}$

Pop =  $\frac{22,113}{25} \cdot \text{year} + 28,916$

⊙ what will be the Athens Pop in year 2025?  
= 61

Pop =  $\frac{22,113}{25} \cdot 61 + 28,916$

Feb 25-10:20 AM

$m = \frac{22,113}{25}$

$(2014, 73, 142) \xrightarrow{+22,113}$

$\bullet \xrightarrow{-425}$

$$\begin{aligned} \text{Pop} &= \frac{22,113}{25} \cdot 61 + 28,916 \\ &= \frac{1,348,893}{25} + \frac{28,916}{1} \\ &= \frac{1,348,893 + 722,900}{25} \\ \text{Pop} &= \frac{2,071,793}{25} \approx 82,871.72 \end{aligned}$$

Feb 25-10:25 AM

Pop 3.4 #32, #34, #36

Feb 25-10:48 AM