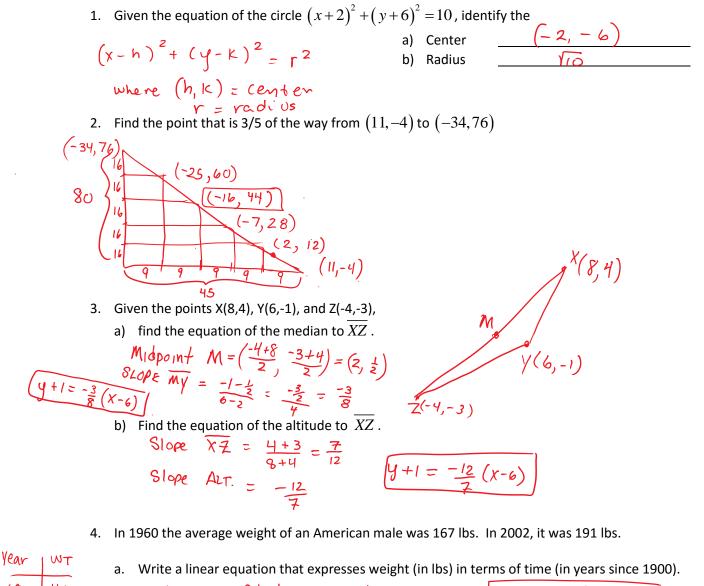
## Precalculus Honors P.4 day 1 Warmup



Slope =  $\frac{191-167}{102-60} = \frac{24}{42} = \frac{4}{7}$   $\left( \frac{y-167}{7} = \frac{4}{7} (x-60) \right)$ 

b. What is the slope of this line and what does it mean in the real world?

c. What is the y-intercept and what does it mean in the real world?

 $y = \frac{4}{7}x - \frac{240}{7} + \frac{167}{7} \Rightarrow y = \frac{4}{7}x + \frac{929}{7} = \frac{1169}{7} - \frac{240}{7}$ d. When does this model predict the average weight for an American male will reach 200 lbs?  $200 = \frac{4}{7}x + \frac{929}{7} = \frac{1400}{7} = 4x + 929 \qquad \text{[ate in 2017 ($52pt$])}$ 

x= 117.75