

Instructions:

Find the average speed between 30 and 45 seconds

Find the intercept

Use the time between 30 and 45 seconds and multiply it by the slope and add the intercept

Inputs:

(x1,y1)

(x2,y2)

Slope =  $(y2-y1)/(x2-x1)$

**inputs**

Time1 = 30 seconds

Time2 = 45 seconds

Time3 = 37

Distance1 = 50 meters

Distance2 = 615 meters

slope =  $(\text{Distance2} - \text{Distance1})/(\text{Time2} - \text{Time1})$

Intercept =  $\text{Dist1} - \text{Time1} * \text{Slope}$

calculate\_distance =  $\text{slope} * \text{Time3} + \text{intercept}$