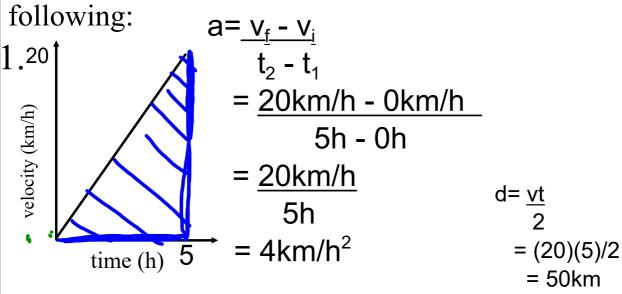
### Dec 12,2019

!!!!Reminder Test Tuesday on Chp 10!!!

## Warm-Up

Calculate the distance and acceleration for the



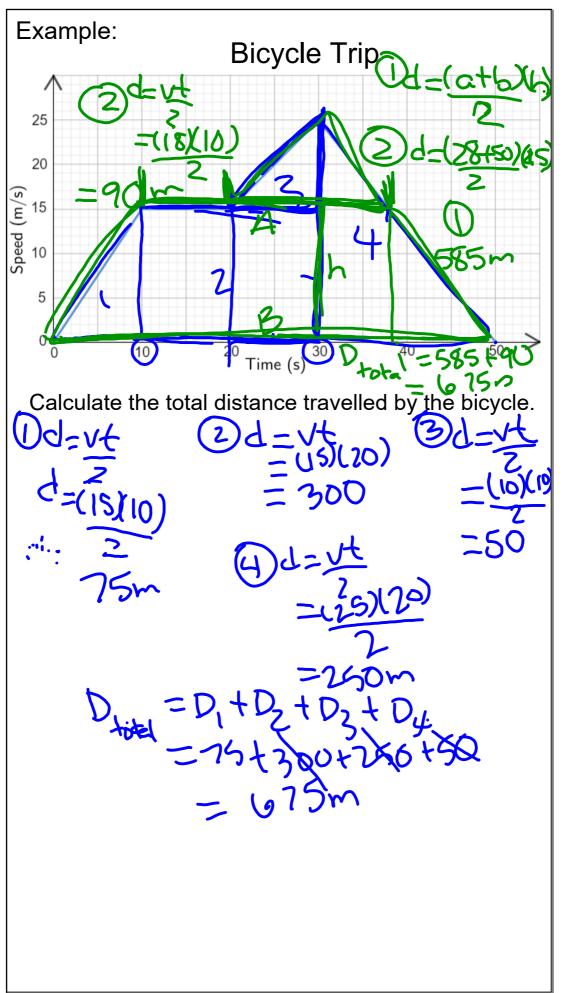
# Answers pg 393 #4b,5b,6c

4b) the area under the graph of a speed time graph communicates the distance travelled.

5b) Distance (Cathryn) = 
$$\underline{\text{vt}}$$
 =  $\underline{(6\text{m/s})(100\text{s})}$  = 300m  
2

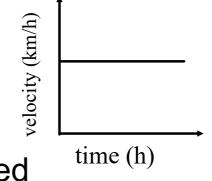
Distance (Keir) = 
$$vt$$
 =  $(4m/s)(100s)$  = 200m  
2

6c) Distance (Cheetah) = 
$$\underline{\text{vt}}$$
 =  $\underline{(20\text{m/s})(2\text{s})}$  = 20m



#### Review Finding Distance/Acceleration

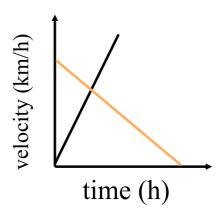
If shape is a square (acceleration zero) use:
D = v x t



If shape is a triangle (speed increasing or decreasing)

use:

$$D = \underline{v \times t}$$



If finding the acceleration find the slope of the line by using the formula

$$t_2 - t_1$$

# Complete Graphing Acceleration and Calculating Distance WS