

## What's Going On?

**Checking In**

**Minds on**

Going for a run.

**Action!**

Math of Motion

**Consolidation**

Sunday Driver

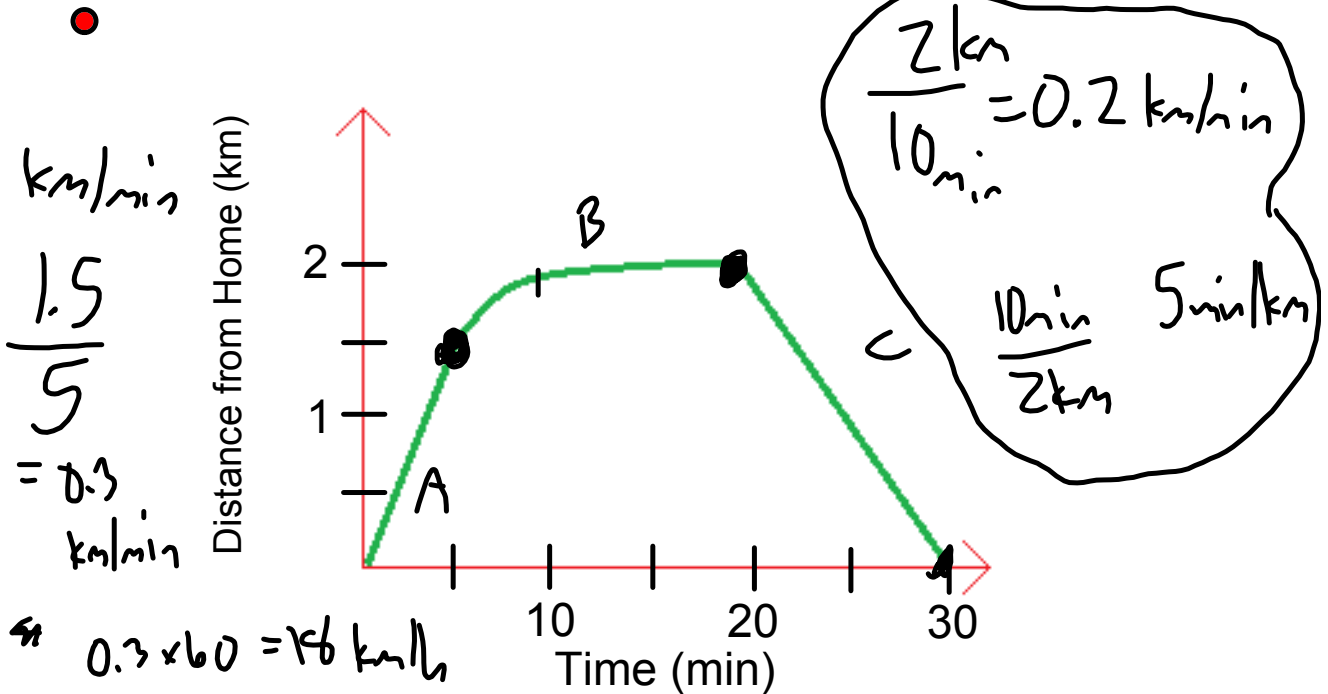
**Learning Goal - I will be able to describe and create distance-time graphs.**

# LGL

No LGL question today!

**Minds on**

Going for a Run



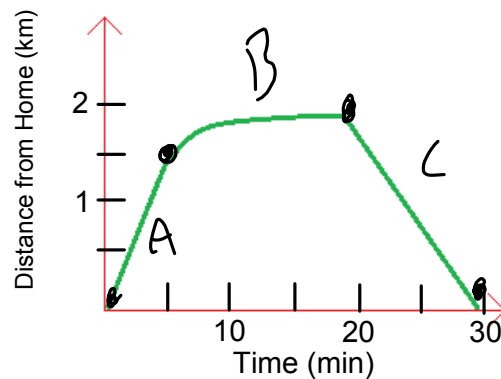
Describe what is happening in this distance-time graph. Be as descriptive as possible.

A  
 So I ran at a steady pace and at the 5 minute mark I started slowing down. At the 9 minute mark I started walking. And I was walking. At the 20 minute mark I ran at a steady pace back home.  
 B  
 C

K. So I started off good until I got around 2 km. Then I just had the same past. After 20 minutes got really tired and just walked home.

## Minds on

## Going for a Run



Describe what is happening in this distance-time graph.  
Be as descriptive as possible.

## Section A

Moving : Moving away from home  
 Distance travelled: 1.5 km  
 Time: 5 min  
 Speed: (distance/time) 0.3 km/min  $\rightarrow$  1.8 km/h

## Section B

Moving : Away from  
 Distance travelled: 0.5 km  
 Time: 15 min  
 Speed: "average" 0.033 km/min  $\rightarrow$  2 km/h  
 \* speed is decreasing during this time

## Section C

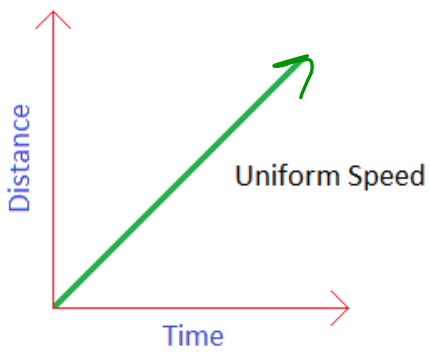
Moving : Towards home  
 Distance travelled: 2 km  
 Time: 10 min  
 Speed: (2 km  $\div$  10 min) 0.2 km/min  $\rightarrow$  12 km/h  

$$\frac{2 \text{ km}}{10 \text{ min}}$$

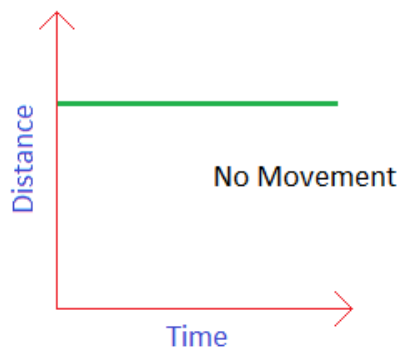
**Action!**

### Math of Motion

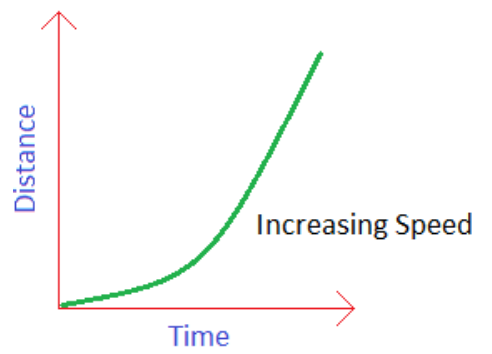
Distance-Time Graph



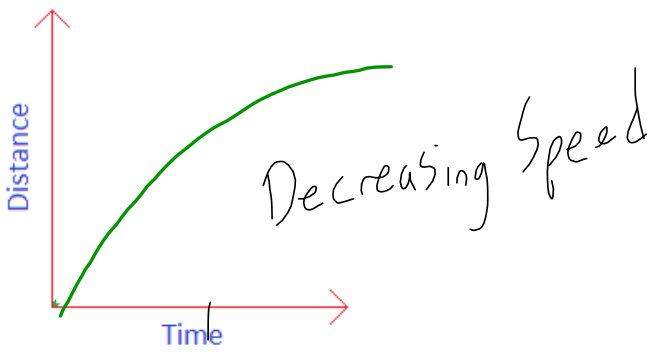
Distance-Time Graph



Distance-Time Graph

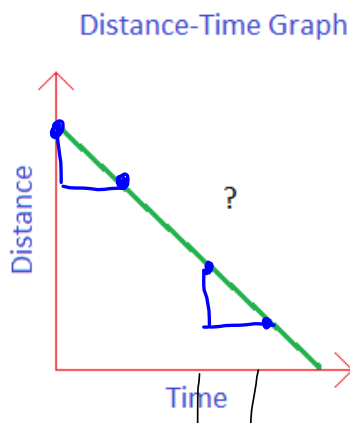


Distance-Time Graph



**Action!**

## Math of Motion

~~a) Decreasing speed~~

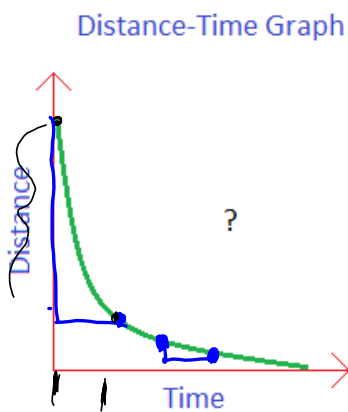
b) Uniform speed

c) No movement

d) Increasing Speed

# Action!

## Math of Motion



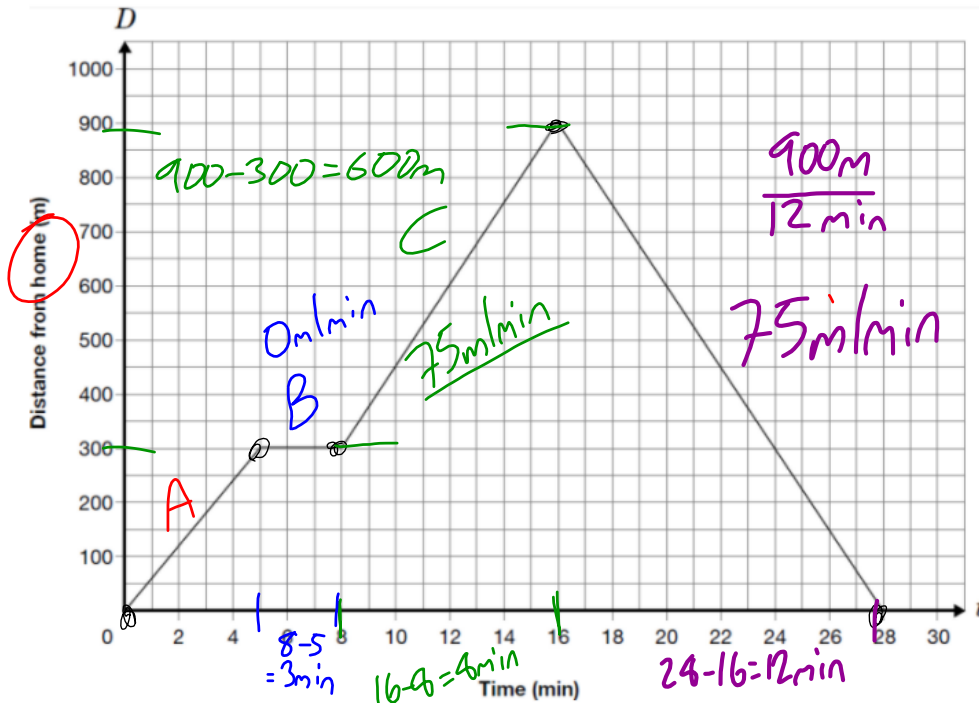
- a) Decreasing speed
- ~~b) Uniform speed~~
- ~~c) No movement~~
- d) Increasing Speed



## Action!

### Selena's Stroll

The graph below represents 4 segments of Selena's morning walk.



Describe the four segments of Selena's walk.

#### Hint

- Include information about
- direction,
  - distance,
  - time and
  - speed, in m/min.

A: Moving away from home  
300m in 5 min  
60m/min

B: Not moving  
0m in 3min  
0m/min

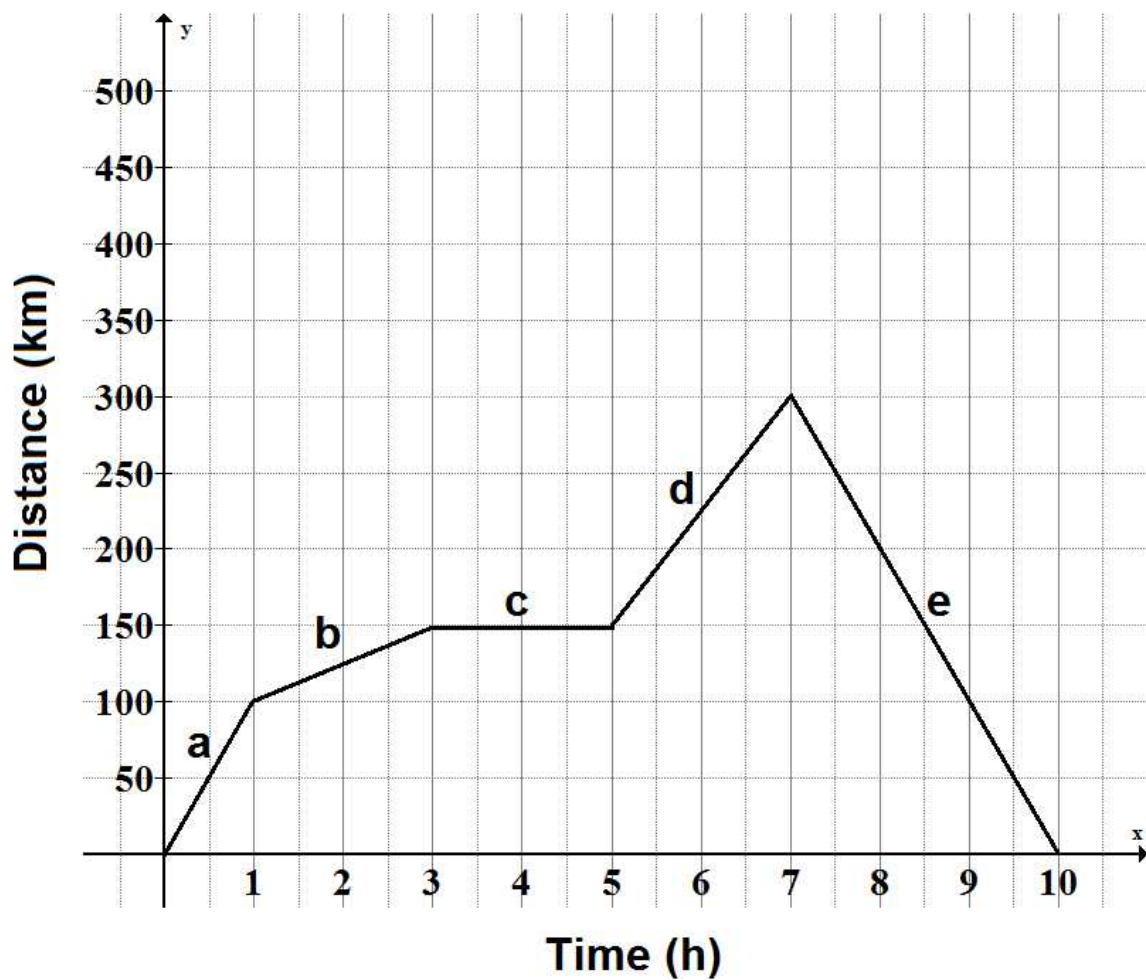
C: Moving away from home  
600m in 8min  
75m/min

D: Moving towards home  
900m in 12min  
75m/min



## Consolidation

# A Big Drive



## Consolidation

### March Breakin'

Last March Break my friend Andrew and I went for a bike ride.

First we rode at a speed of 35 km/h for 1.5 hours. Then we rode slightly uphill at a speed of 15 km/h for 15 minutes and then took a 15 minute break. After our break we rode a nice long flat stretch at 20 km/h for an hour and took another fifteen minute break. We finished our ride with a pretty steep hill where we rode at 5 km/h for a half hour.

**Consolidation**

# Homework

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