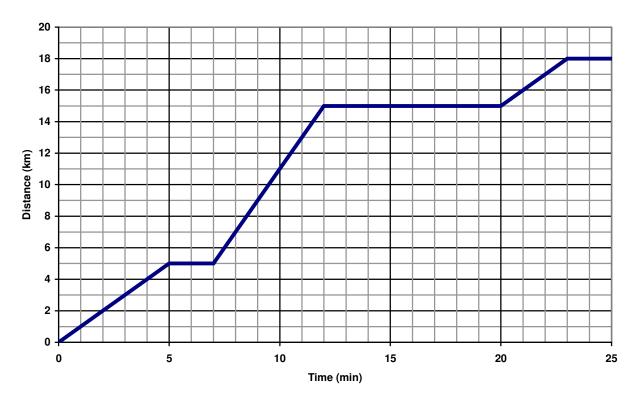
## Rate of Change

Rate of Change = \_\_\_\_\_

For the following graph, calculate the rate of change of each section.



The following graph describes Marissa's drive to work.



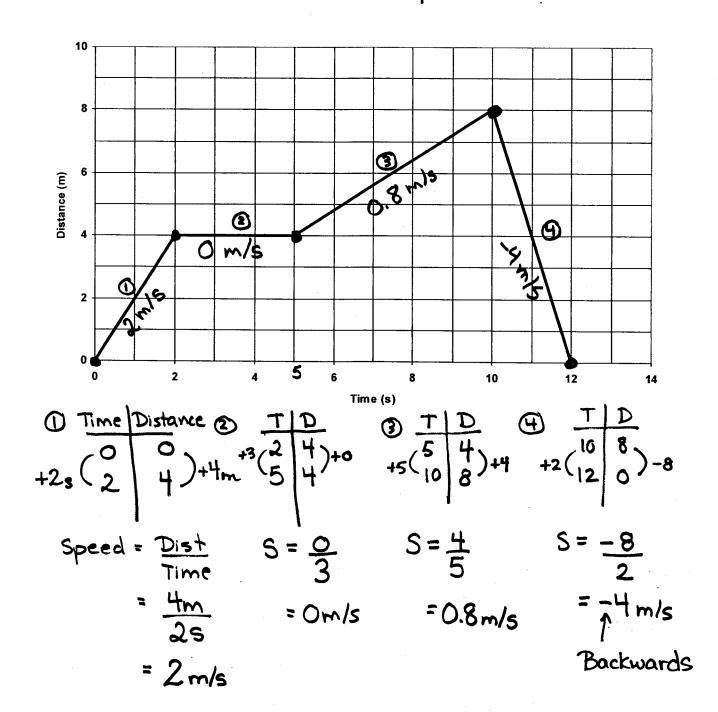
- a) How long did she stop for during her trip?
- b) Give one reason why she might have stopped.

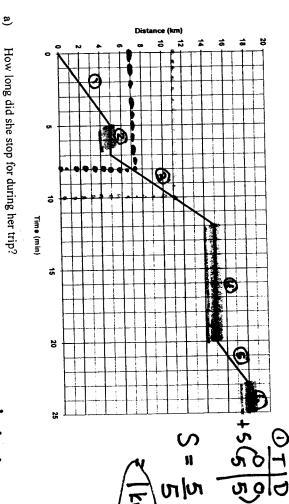
- c) After 10 minutes, what distance is she from her house?
- d) At what time is she 7 km from her house?

e)	Calculate the rate of change in each section of the graph.
f)	Describe her drive to work.

## Rate of Change

For each of the following graphs, calculate the rate of change for each section of the graph.





- 07 D 2 0 TD 9 TD 9 5 TD 6 1+5(5 5)+5 0 km/min +5(12 15)+10 0 km/min +3(23 18)+3 0 km/min 1 km min wo S (2 km/min) F Km/mir
- f) Write a story to describe her trip to work.
- 1) Marissa left her house and drove towards work at 1km/min
- (b) She stops at a red light from far 2 min.

<u>a</u>

<u>5</u>

Give one reason why she might have to stop.

She stopped for a red light

She stopped for 12 min total

- (W) She drives much faster towards work at 2 km/min.
- E Oh No! She is parked ower by the police for speeding
- (J) she drives more slowly towards work at 1 km/min.
- **©** She stops at work.

How far from home was she after 10 mins

She was I km away tram home.

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At 8 minutes

At what time was she 7 km from home?

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