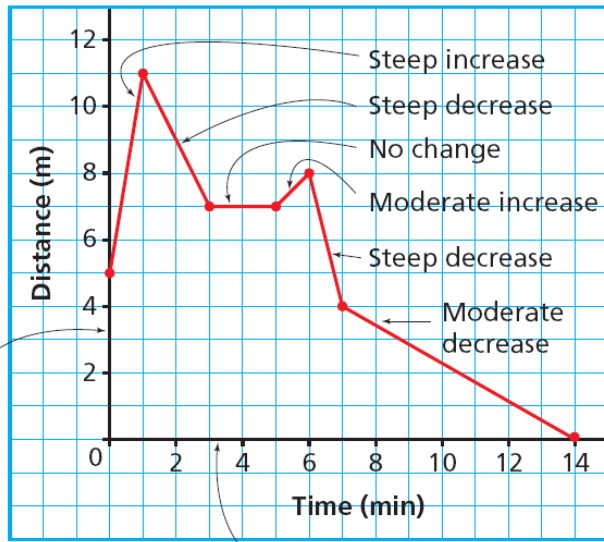


## Interpreting Graphs

The slope of a graph can provide information about a situation.



A straight line represents a constant rate of change.

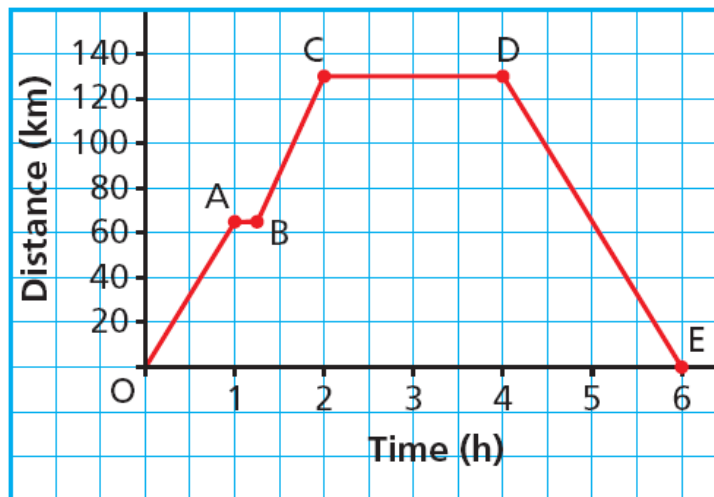
A steeper line is a faster rate of change.

A horizontal line is no rate of change.

A curved line means rate of change is changing.

Ex 1) Describe the journey for each segment of the graph:

Day Trip from Winnipeg to Winkler, Manitoba



Segment:

O → A Increase → Drove 65 km for 1 hour

A → B No slope → Stopped for 15 mins

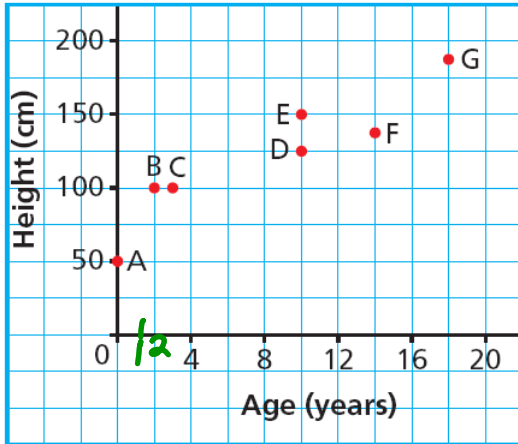
B → C Increase → Drove another 65 km for 45 mins

C → D No change → stopped in Winkler for 2 hours

D → E Decrease → Drove home to Wpg 130 km for 2 hours

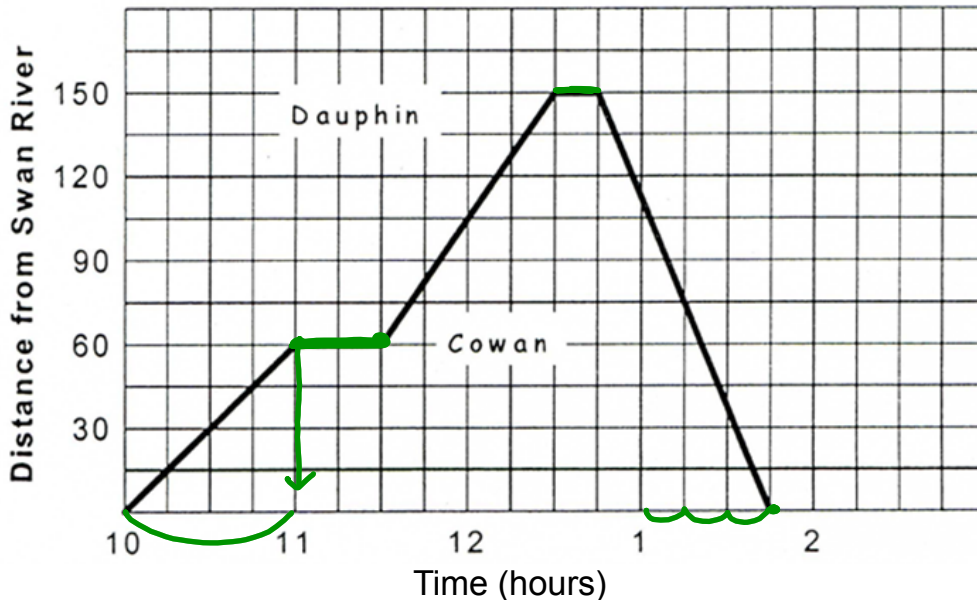
Ex 2) The graph below shows the heights of people at different ages.

Ages and Heights of People



- Which person is the oldest? **G**  
What is her or his age? **18**
- Which person is the youngest? **A**  
What is his or her age? **Newborn**
- Which two people have the same height? What is the height? **BC**  
**100 cm**
- Which two people have the same age? What is the age? **ED** / **10**
- Which person B or C is taller for their age? **B**
- State if the graph a function. **No**  
**Can't have 2 same age**

Ex 3) Journey from Swan River to Dauphin and Return



- How far is it from Swan River to Cowan? **60 km**
- How far is it from Cowan to Dauphin? **90 km**
- At which two places does the car stop? **Cowan + Dauphin**
- How long does the car stop at Dauphin? **15 min**
- At what time does the car arrive in Cowan? **11 am**
- At what time does the car arrive back in Swan River? **1:45 pm**