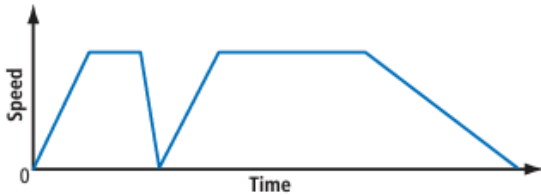## Graphs of Relations

Show You Know
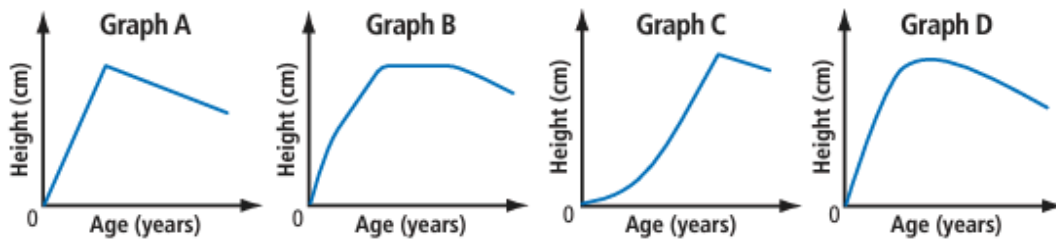

Ex. 1

The graph shows the speed of the boat that is pulling a wakeboarder. Describe what the boat is doing.
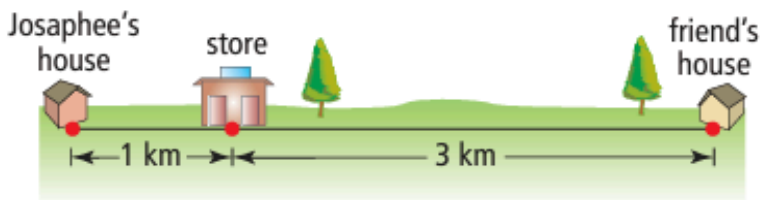

Ex. 2

Which graph best represents a person's height as the person ages? Explain your choice.

Ex. 3

For the same scenario as example 3 from the lesson, and using the distances shown, draw a distance-time graph that shows Josaphee's distance from the store. Explain each section of your graph.

Graphs of Relations

Practice

1. For each scenario, draw a graph that is appropriate to the context, representing the activity in relation to time. Label the axes and provide a scale, if possible.

eating a bowl of cereal for breakfast	reading a novel from start to finish
washing a load of laundry	flying from Calgary to Edmonton

2. Kari drew the distance-time graph below to represent a scenario described by their teacher:
    - A to B: drive away from home accelerating to 50 km/h
    - B to C: continue away from home driving at 50 km/h
    - C to D: continue away from home accelerating to 100 km/h
    - D to E: continue away from home driving at 100 km/h
    - E to F: continue away from home decelerating to 0 km/h
    - F to G: spend 30 minutes in the mall
    - G to - H: drive straight home at 40 km/h
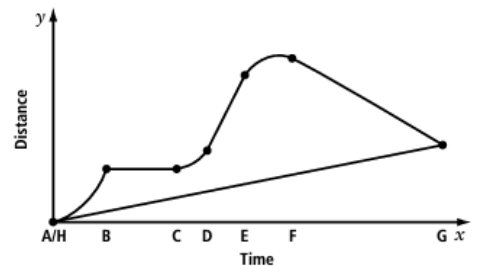
    a) For sections that you think are drawn incorrectly, state what you think is wrong. Then, draw the graph correctly.

    b) Draw a speed-time graph for the scenario.