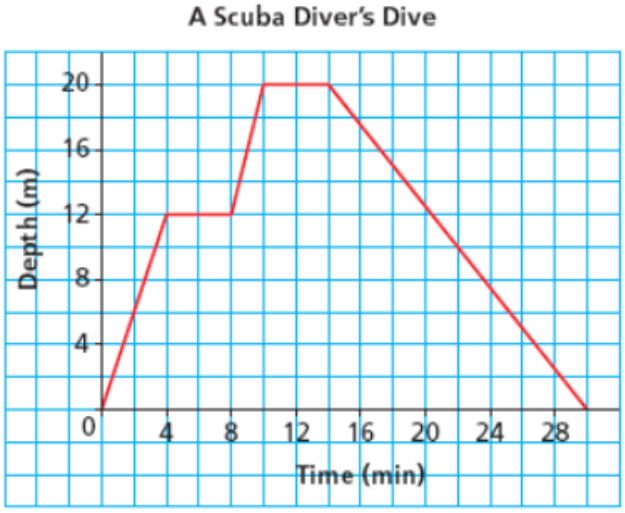
Section 5.3 Interpreting and Sketching Graphs

Example 1



a) How many minutes did the dive last?

b) At what times and depths did the diver stop her descent?

c) What was the greatest depth that the diver reached? For how many minutes was the diver at this depth?

d) What does the origin of 0 represent in this problem?

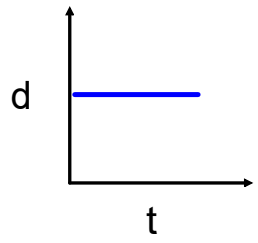
e) What does the point (30,0) represent in this problem?

f). What does the first, third and fifth section of the graph represent?

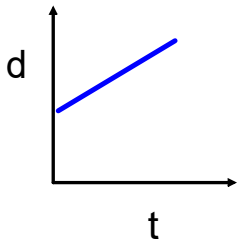
h) Is this relation a function? Why or why not?

Summary of Distance-time graphs

- a horizontal line segment



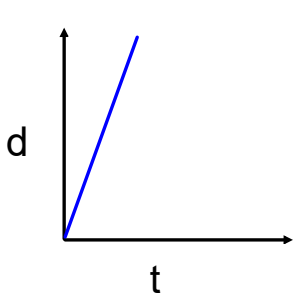
- a line segment slants up to the right

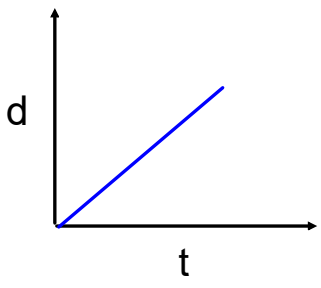


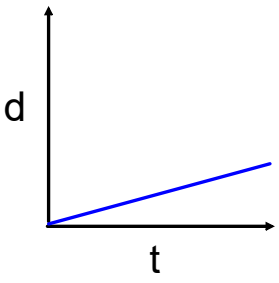
The steeper the line, the faster the speed.

Example 2:

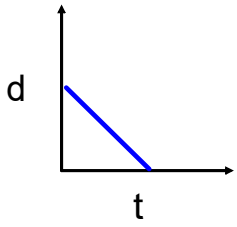
Which distance-time graph shows the fastest speed? Slowest speed?





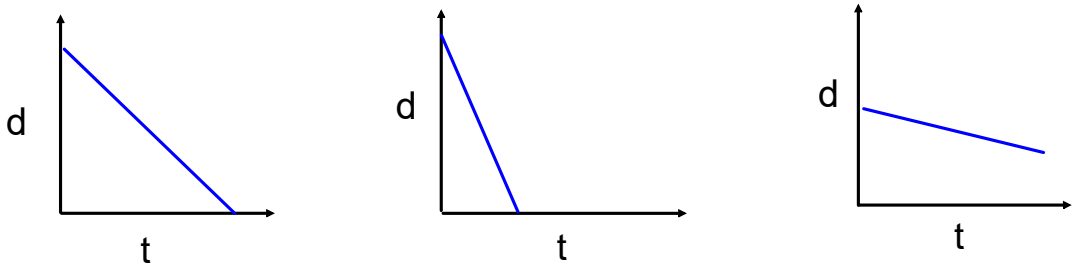


- a line segment that slants down to the right



Example 3:

Which distance-time graph shows the fastest speed? Slowest speed?



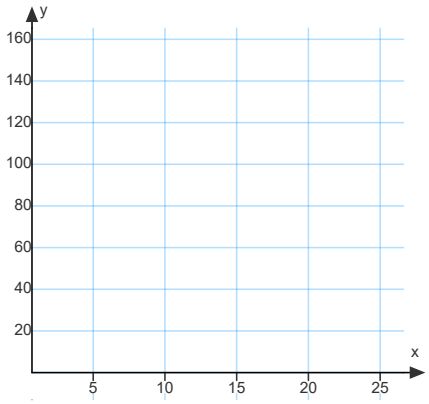
Example 4

Sketch a graph of the following scenario and label each section.

a) An oven is turned on at a room temperature of 20°C

b) It takes 10 minutes for the oven to reach 150°C

c) The oven is then turned off and returns to room temperature after 15 minutes.



Work Book Questions	Extra Practice Questions
p.281 - 282 #3abcd, 4abcd, 5, 6, 8abcde, 9ab, 12, 13	p.281 - 282 #7, 10, 14ab