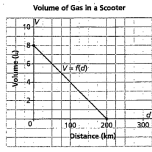


Applications:

1)

This graph shows the fuel consumption of a scooter with a full tank of gas at the beginning of a journey.



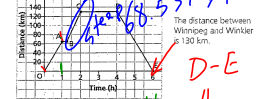
a) Write the coordinates of the points where the graph intersects the axes. Determine the vertical and horizontal intercepts. Describe what the points of intersection represent.

b) What are the domain and range of this function?

2)

Describe the journey for each segment of the graph.

Day Trip from Winnipeg to Winkler, Manitoba



$$\frac{\Delta D}{T} = \frac{130}{2} = 65 \text{ km/h}$$

SOLUTION

Segment OA: Increasing quickly 53 km/h  
 Segment AB: Break no driving rest 65.35 km/h  
 Segment BC: no driving rest 0 km/h  
 Segment CD: steep / fast  
 Segment DE: steep / fast