

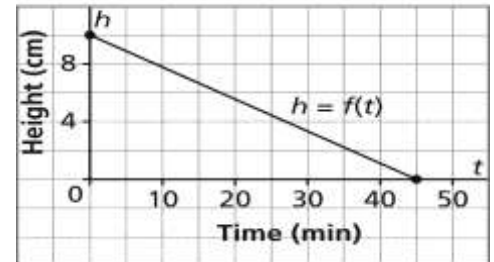
FPC 10

4.8 – Interpreting Graphs of Linear Relations

1. The graph shows how the height of a burning candle changes with time.

a) Write the coordinates of the points where the graph intersects each of the axes.

Height of a Burning Candle

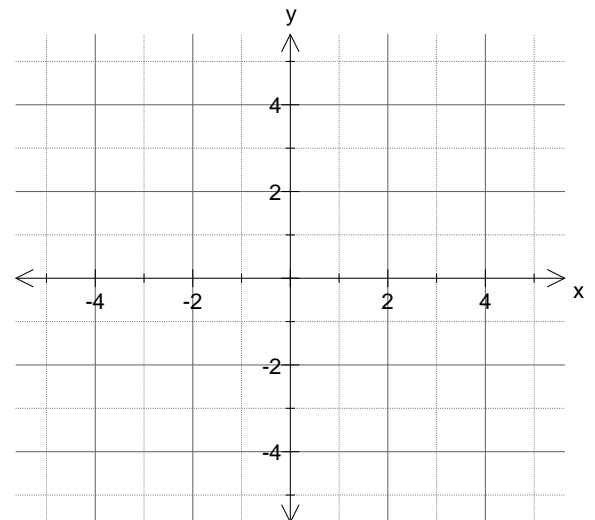


b) Determine the vertical and horizontal intercepts.

c) Describe what the points of intersection represent.

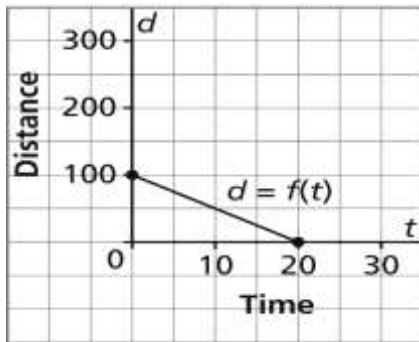
d) What are the domain, range, and ROC of this function?

2. Sketch a graph of the function: $f(x) = \frac{1}{2}x - 1$. Is it linear or non-linear? Determine the domain and range.

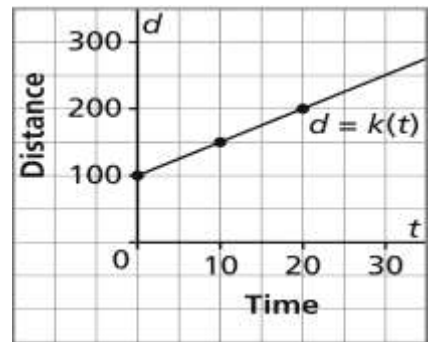


3. Which graph has a rate of change of -5 and a vertical intercept of 100 ? Justify your answer.

a)



b)



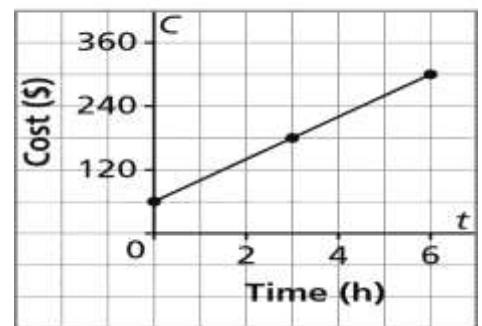
4. The graph shows the total cost for a house call by an electrician for up to 6 h work.

a. How much does she charge per hour?

b. What is her fixed fee, just to come to a house?

c. How much does she charge for 5.5 hours of work?

Cost of an Electrician's House Call



d. She charged \$190 to complete a job. For how many hours did she work?