

Section 6.3 Extra Practice

- Suri drives at an average speed of 90 km/h. The equation relating distance, d , and time, t , is $d = 90t$.
 - Complete a table of values to represent the relation.
 - Show the relationship on a graph.
 - How long does it take Suri to drive 630 km?
- For each linear equation, create a table of values and a graph.
 - $b = -2a - 15$
 - $t = -3$
 - $g = \frac{f}{4} - 2$
- Create a graph and a linear equation to represent each table of values.

a)

x	y
-3	4
-2	4
-1	4
0	4
1	4
2	4
3	4

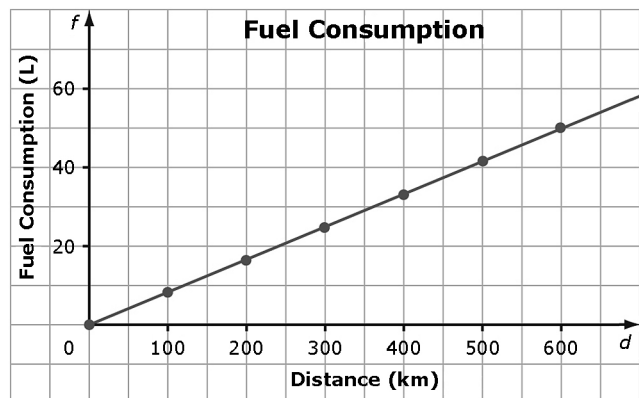
b)

a	g
10	8
11	8.5
12	9
13	9.5
14	10
15	10.5

c)

t	d
0	-2.0
1	-1.75
2	-1.5
3	-1.25
4	-1
5	-0.75

- The graph shows the relationship between the fuel consumption, f , in litres (L), and the distance driven, d , in kilometres (km).



- What is the linear equation?
- How far could you drive with 34 L of gas?
- Is it appropriate to interpolate or extrapolate values on this graph? What assumption is being made? Explain.