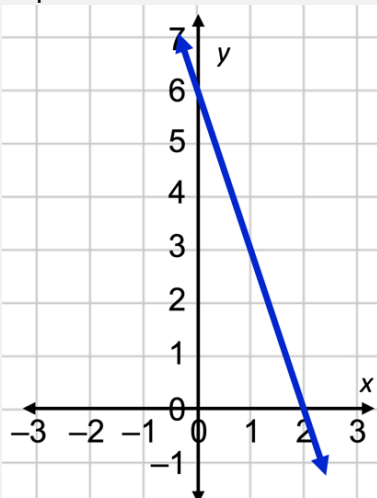


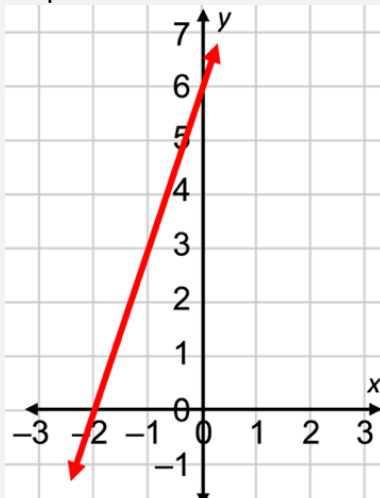
Moving Straight Ahead

Learning Aid 4.2: Constant of Proportionality

Graph 1



Graph 2



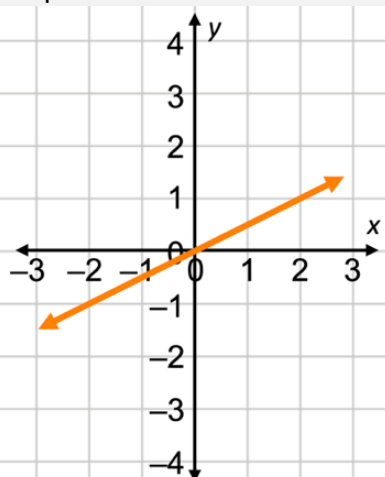
Equation 1

$$y = x + 5$$

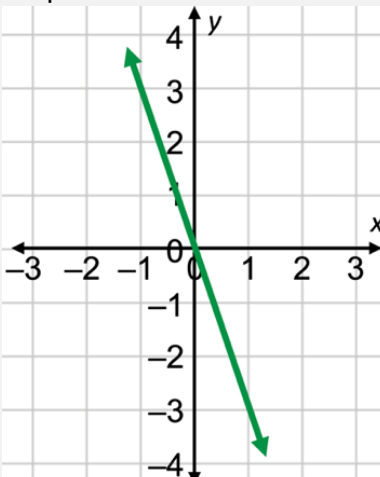
Equation 2

$$y = 20 - 3x$$

Graph 3



Graph 4



Equation 3

$$y = -x$$

Equation 4

$$y = 0.5x$$

Table 1

x	-6	-4	-2	0	2	4
y	-10	-7	-4	-1	2	5

Table 2

x	1	2	3	4	5	6
y	4.5	4.0	3.5	3.0	2.5	2.0

Table 3

x	-2	-1	0	1	2
y	-1	-1	-1	-1	-1

Table 4

x	2	3	4	5	6	7
y	-5	-7.5	-10	-12.5	-15	-17.5

Context 1

A fire in California is burning at a rate of 5 square miles per hour. How many square miles n have burned after t hours?

Context 2

Mia borrows \$500 from her uncle to buy a bike. Mia pays back \$25 a week. How much money is left to pay off A after w weeks?

Context 3

You can estimate Fahrenheit F from Celsius C temperature. Multiply the Celsius temperature by 2 and add 30. What equation will estimate the temperature from one temperature system to the other?

Context 4

Will pays \$79 a month for unlimited data. What equation would show Will's cost A , as the amount of data x increases in a month?