

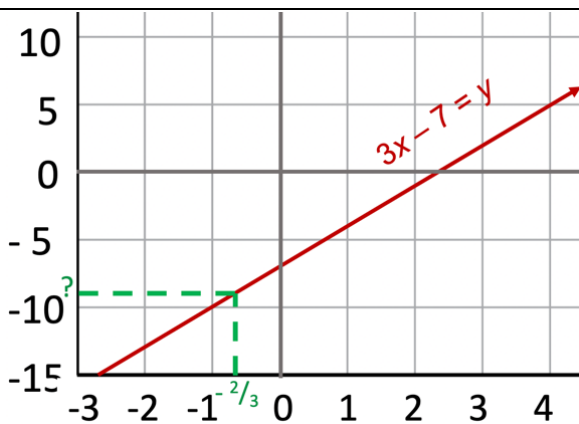
## Moving Straight Ahead Teaching Aid 3.3B: Situation A

$$3x - 7 = y$$



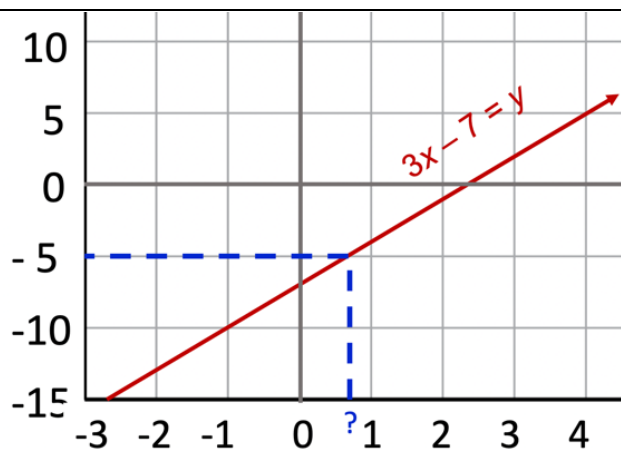
x	y
-3	-16
-2	-13
-1	-10
0	-7
1	-4
2	-1
3	2
4	5

$3x - 7 = y$ , find  $y$  when  $x = -\frac{2}{3}$  Using integers, we can only estimate the solution



x	y
-3	-16
-2	-13
-1	-10
0	-7
1	-4
2	-1
3	2
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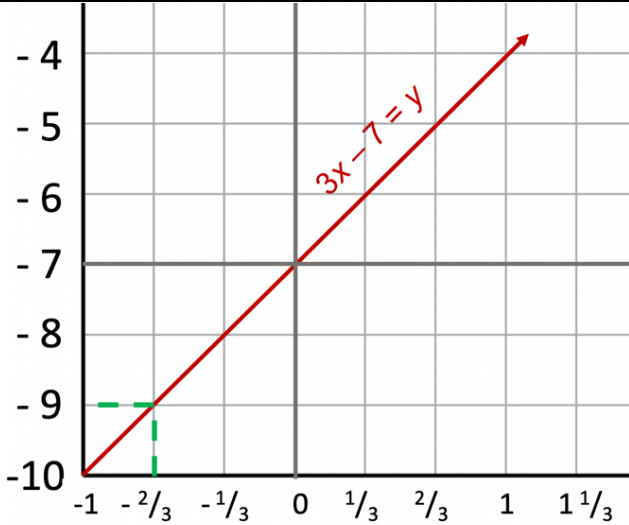
$3x - 7 = y$ , find  $x$  when  $y = -5$  Using integers, we can only estimate the solution



x	y
-3	-16
-2	-13
-1	-10
0	-7
1	-4
2	-1
3	2
4	5

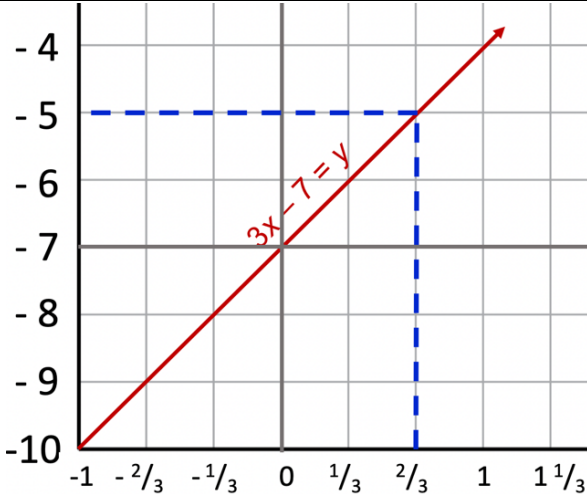
If we use graphing technology, we can zoom in to find rational values for the solutions.

$3x - 7 = y$ , find  $y$  when  $x = -\frac{2}{3}$



x	y
-1	-10
$-\frac{2}{3}$	-9
$-\frac{1}{3}$	-8
0	-7
$\frac{1}{3}$	-6
$\frac{2}{3}$	-5
1	-4
$1\frac{1}{3}$	-3

$3x - 7 = y$ , find  $x$  when  $y = -5$



x	y
-1	-10
$-\frac{2}{3}$	-9
$-\frac{1}{3}$	-8
0	-7
$\frac{1}{3}$	-6
$\frac{2}{3}$	-5
1	-4
$1\frac{1}{3}$	-3

These can be checked:

$$3(-\frac{2}{3}) - 7 = y$$

$$-2 - 7 = y$$

$$-9 = y$$

$$3x - 7 = -5$$

$$3x - 7 + 7 = -5 + 7$$

$$3x = 2$$

$$x = \frac{2}{3}$$