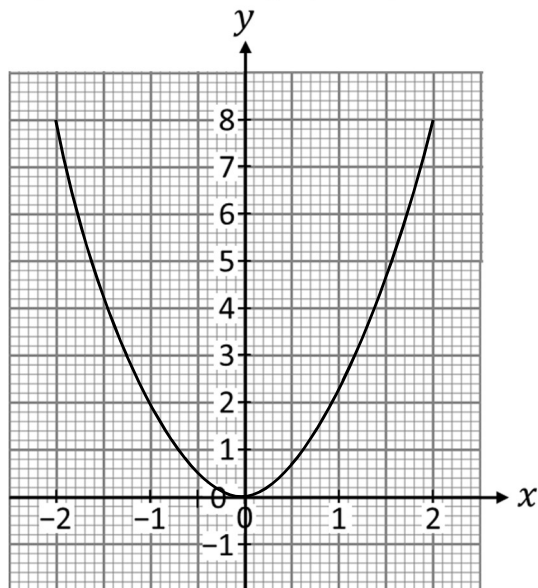




1 (a) Meera is using a graphical method to solve $2x^2 - 3x = 0$. She draws the graph of $y = 2x^2$ and a straight line graph on the same grid. Here is the graph of $y = 2x^2$.



Complete her method to solve $2x^2 - 3x = 0$

[2 marks]

Answer _____

1 (b) Levi is solving $2x^2 + 5x = 0$

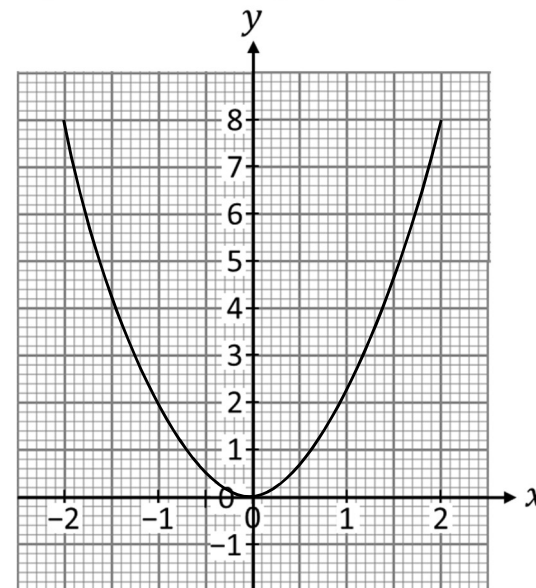
He uses this method.

$2x^2 + 5x = 0$	subtract $5x$ from both sides
$2x^2 = -5x$	divide both sides by x
$2x = -5$	divide both sides by 2
$x = -2.5$	

Evaluate his method and his answer.

[2 marks]

1 (a) Meera is using a graphical method to solve $2x^2 - 3x = 0$. She draws the graph of $y = 2x^2$ and a straight line graph on the same grid. Here is the graph of $y = 2x^2$.



Complete her method to solve $2x^2 - 3x = 0$

[2 marks]

Answer _____

1 (b) Levi is solving $2x^2 + 5x = 0$

He uses this method.

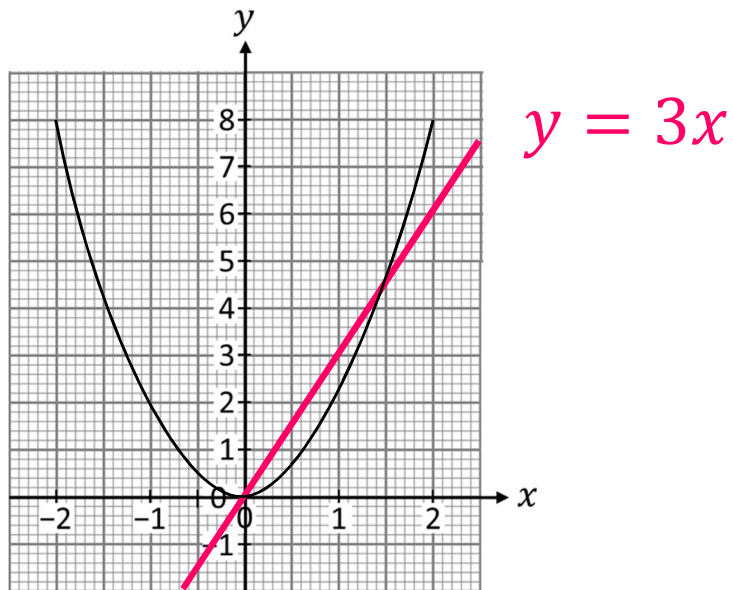
$2x^2 + 5x = 0$	subtract $5x$ from both sides
$2x^2 = -5x$	divide both sides by x
$2x = -5$	divide both sides by 2
$x = -2.5$	

Evaluate his method and his answer.

[2 marks]



- 1 (a) Meera is using a graphical method to solve $2x^2 - 3x = 0$. She draws the graph of $y = 2x^2$ and a straight line graph on the same grid. Here is the graph of $y = 2x^2$



Complete her method to solve $2x^2 - 3x = 0$

[2 marks]

$$2x^2 = 3x$$

Answer (0,0) (1.5,4.5)

- 1 (b) Levi is solving $2x^2 + 5x = 0$

He uses this method.

$2x^2 + 5x = 0$ subtract $5x$ from both sides

$2x^2 = -5x$ divide both sides by x

$2x = -5$ divide both sides by 2

$x = -2.5$

Evaluate his method and his answer.

[2 marks]

x may be 0, cannot divide by 0
