

Solutions

Award method and answer marks as indicated; accept equivalent correct methods.

2.1

- Compare with $y = mx + c$: $m = 5$, intercept $(0, -3)$.

2.2

- $y = mx + c$ gives $y = -2x + 6$.

2.3

- Every point has the same x : $x = 4$.

2.4

- Every point has the same y : $y = -5$.

3.1

(a)

- The y -axis crossing is $(0, -2)$, so $c = -2$.

(b)

- Run 2 and rise 4 give $m = 4/2 = \mathbf{2}$.

(c)

- $y = 2x - 2$. Check: $y = 2(4) - 2 = 6$.

3.2

(a)

- Intercept **4**.
- A grid triangle gives $m = (1 - 4)/(2 - 0) = \mathbf{-3/2}$.
- Thus $y = \mathbf{-1.5x + 4}$.

(b)

- The vertical line is $\mathbf{x = -3}$: every point has x-coordinate -3 .
- The equation $y = -3$ instead describes a horizontal line with constant y .