

Solutions

Each answer shows the steps, then the **result**.

2.1

- $3 - 1 = 2$

2.2

- $(2)(-1) = -2$

2.3

- Where $y - 1 = 0$, i.e. along the line $y = 1$

3.1 B

- at $x = 0$ the slope is $2(0) = 0$, horizontal

3.2

(a)

- $(-1, 0)$: 0; $(0, 2)$: 1; $(2, -3)$: 3

(b)

- $x = -1$ (where $x + 1 = 0$)

3.3

- $\frac{dy}{dx} = y$ — the slope is 0 where $y = 0$ and grows with $|y|$, and depends on y only, so it is the same in every column