Solutions

Marking: **M1** a correct method, **A1** the correct answer, **B1** an independent mark.

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

2.1

- $\mathbf{1}, \mathbf{3}, \mathbf{5}$

2.2

- a **horizontal** line through $(0, -2)$

2.3

- $3(2) - 1 = 5$, so **yes**

2.4

- $x = 0$: $(\mathbf{0}, \mathbf{9})$
- $y = 0$: $3x = 9$, $(\mathbf{3}, \mathbf{0})$

2.5

- $\mathbf{6}, \mathbf{4}, \mathbf{2}, \mathbf{0}, \mathbf{-2}$

3.1

(a)

- $\mathbf{-3}, \mathbf{-1}, \mathbf{1}, \mathbf{3}, \mathbf{5}$

(b)

- points plotted
- ruled line from $(0, -3)$ to $(4, 5)$

(c)

- $\mathbf{x = 2.5}$

3.2

(a)

- L: $\mathbf{y = -2}$
- M: $\mathbf{x = 3}$

(b)

- $(\mathbf{3}, \mathbf{-2})$

3.3

(a)

- **65 yuan**

(b)

- **4 hours**

(c)

- a **fixed charge** of 20 yuan paid whatever the time

(d)

- $15t + 20 = 25t$
- $10t = 20$, $\mathbf{t = 2}$ hours