Horizontal/vertical lines

6 questions | 12 marks

Equivalent correct methods earn the corresponding marks.

1. Give two points on $y = 4$. [2 marks]

Keep y equal to 4.

Choose different x-values.

Answer: For example $(0, 4), (2, 4)$.

2. Give two points on $x = -1$. [2 marks]

Keep x equal to -1.

Choose different y-values.

Answer: For example $(-1, 0), (-1, 3)$.

3. Which line is vertical: $x = 5$ or $y = 5$? [2 marks]

It fixes horizontal position.

Its y-values vary.

Answer: $x = 5$.

4. A horizontal line passes through $(4, -3)$. Give its equation. [2 marks]

Use the point's constant y-coordinate.

The x-coordinate may vary.

Answer: $y = -3$.

5. A vertical line passes through $(-4, 2)$. Give its equation. [2 marks]

Use the point's constant x-coordinate.

The y-coordinate may vary.

Answer: $x = -4$.

6. Where do $x = 2$ and $y = -3$ intersect? [2 marks]

The point must satisfy both equations.

Combine $x = 2$ and $y = -3$.

Answer: $(2, -3)$.