# FUNCTIONAL SKILLS MATHEMATICS

AQA | Edexcel | City & Guilds | Open Awards | NCFE | Highfield

Level 2

# Coordinates

## Materials

- You **cannot** use a calculator for **questions** with this symbol. 

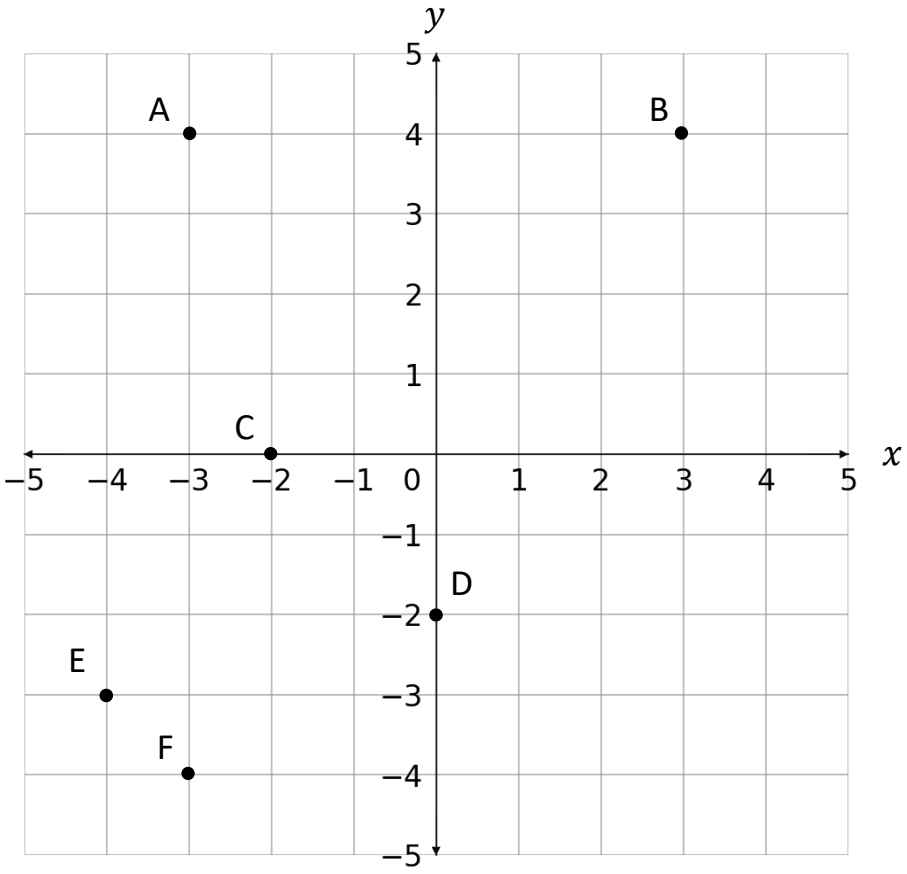
## Instructions

- Answer **all** questions.
- Answer questions on separate paper.

## Information and Advice

- The marks for each question are shown in brackets – use this as a guide on how long to spend on each question.
- Read each question carefully before you answer it.
- Check you answers.

**Q1** Look at the grid below.




Which of the points (A-F) is at:

**1(a)** $(-2, 0)$?

**[1 mark]**

**1(b)** $(-4, -3)$

**[1 mark]**

**1(c)** $(3, 4)$

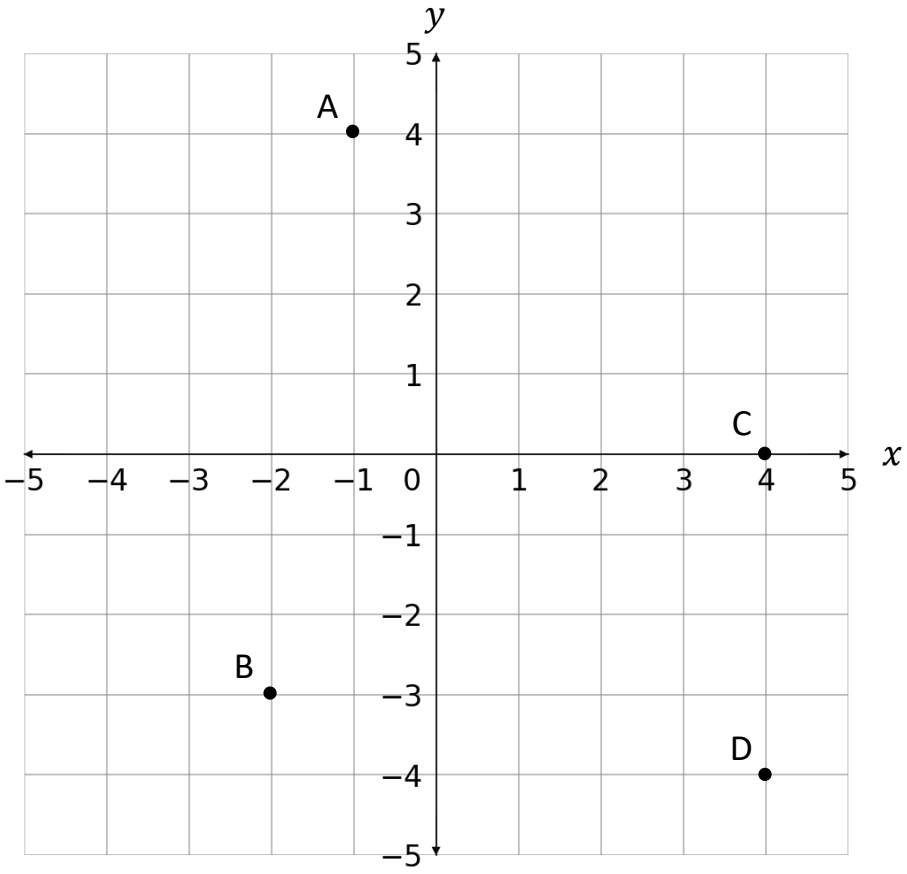
**[1 mark]**

**1(d)** $(-3, -4)$

**[1 mark]**

4

**Q2** Look at the grid below.




Write down the coordinates of the points:

**2(a)** A

**[1 mark]**

**2(b)** B

**[1 mark]**

**2(c)** C

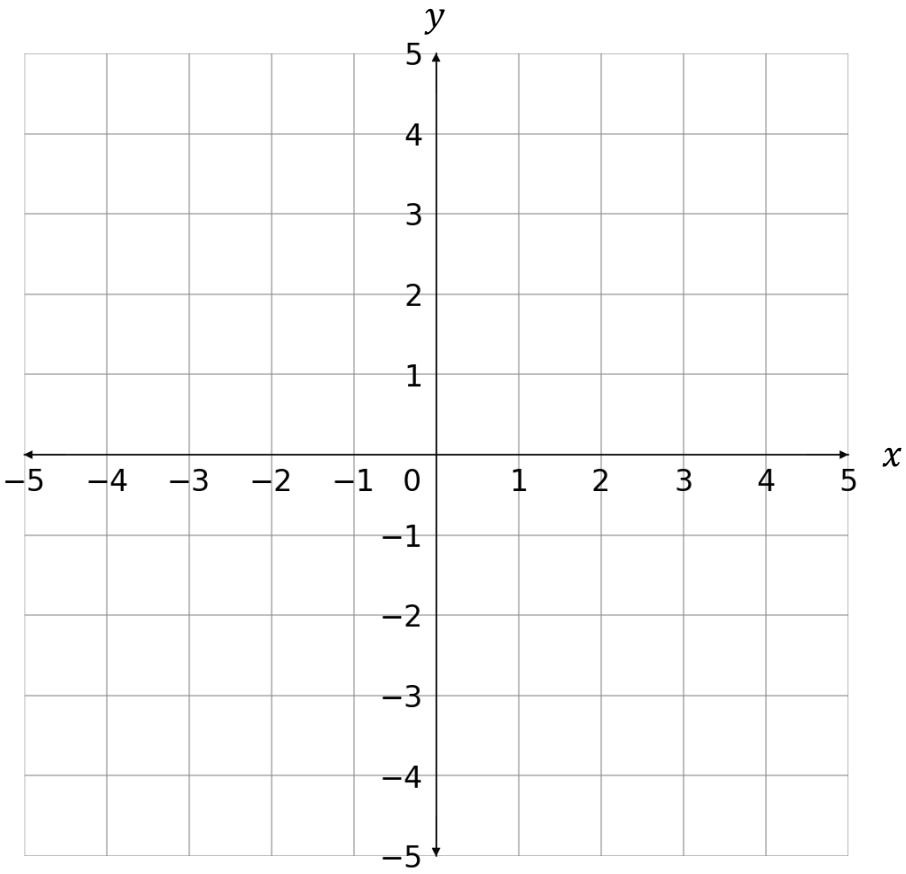
**[1 mark]**

**2(d)** D

**[1 mark]**

4

**Q3**




On the grid above, plot the points:

**3(a)** $(-1, 1)$

**[1 mark]**

**3(b)** $(3, 5)$

**[1 mark]**

**3(c)** $(-2, -4)$

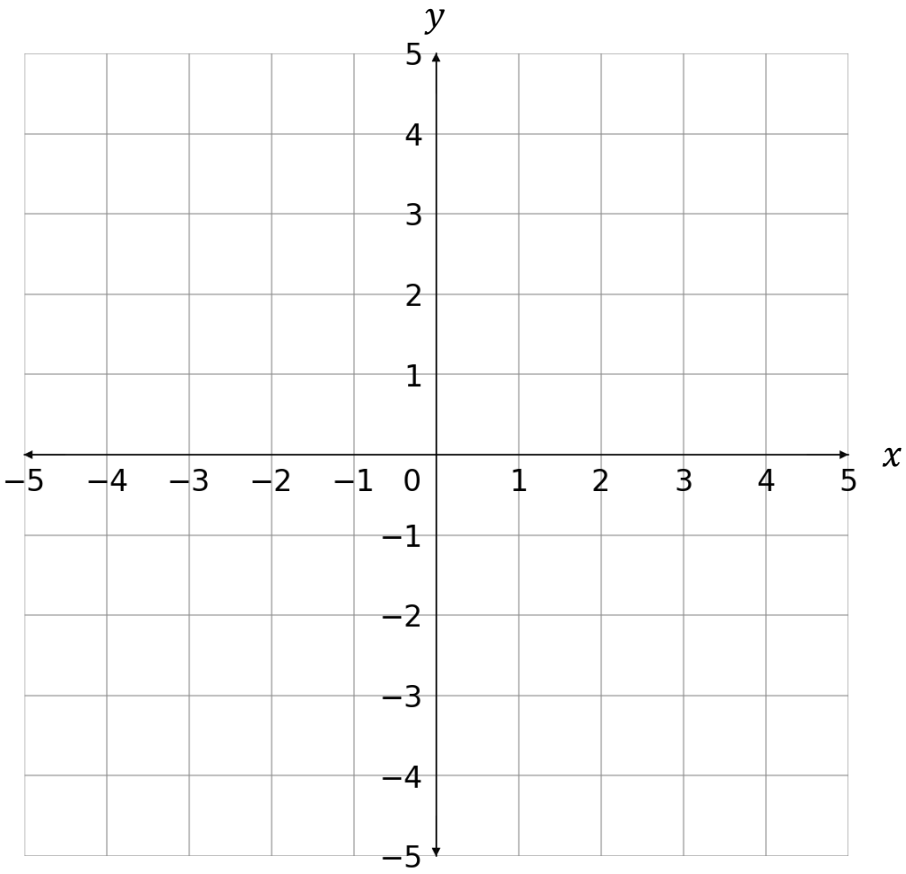
**[1 mark]**

**3(d)** $(2, -1)$

**[1 mark]**

4

**Q4**




On the grid above, plot the points:

**4(a)** $(3, 3)$

**[1 mark]**

**4(b)** $(2, 0)$

**[1 mark]**

**4(c)** $(-4, -5)$

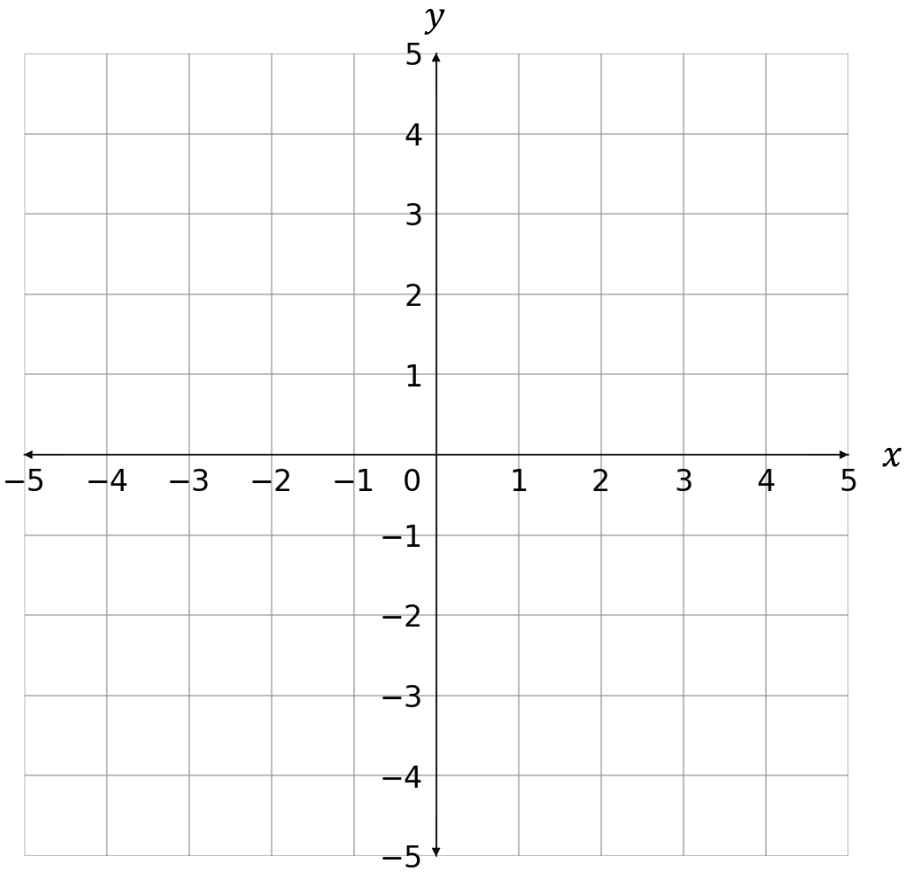
**[1 mark]**

**4(d)** $(0, -4)$

**[1 mark]**

4

**Q5**




Plot the following points on the grid above, and join them to make a triangle:

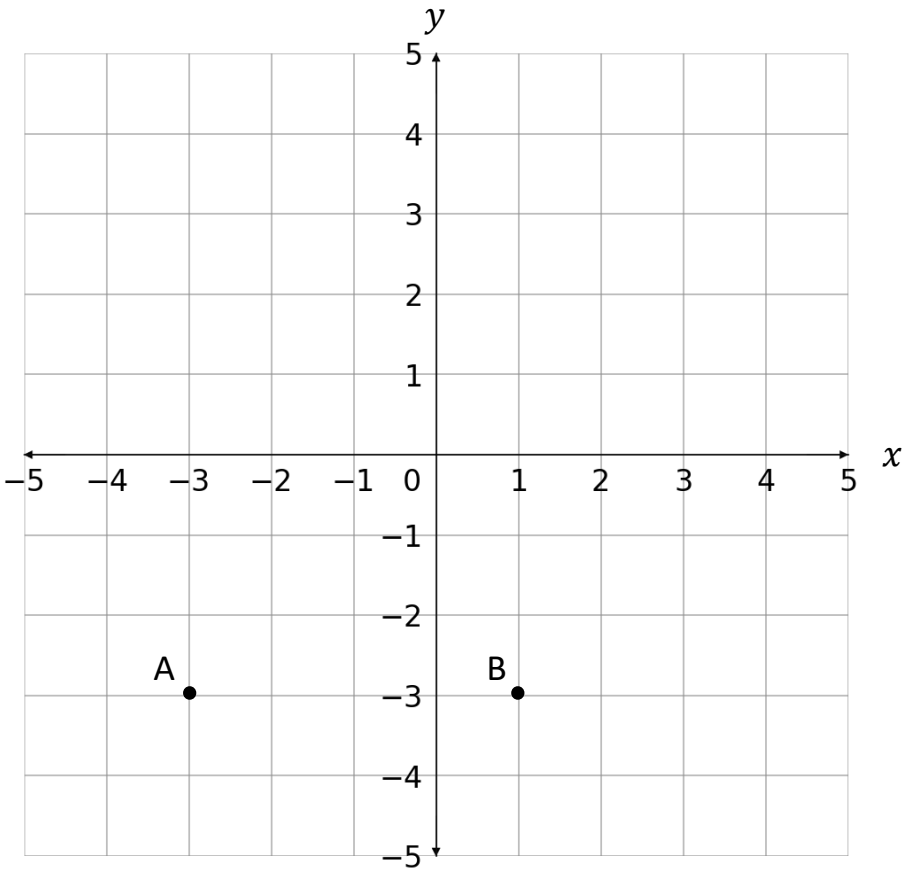
$A$: $(-2, -1)$
$B$: $(3, -1)$
$C$: $(2, 4)$

Clearly label your points.

**[2 marks]**

2

**Q6**



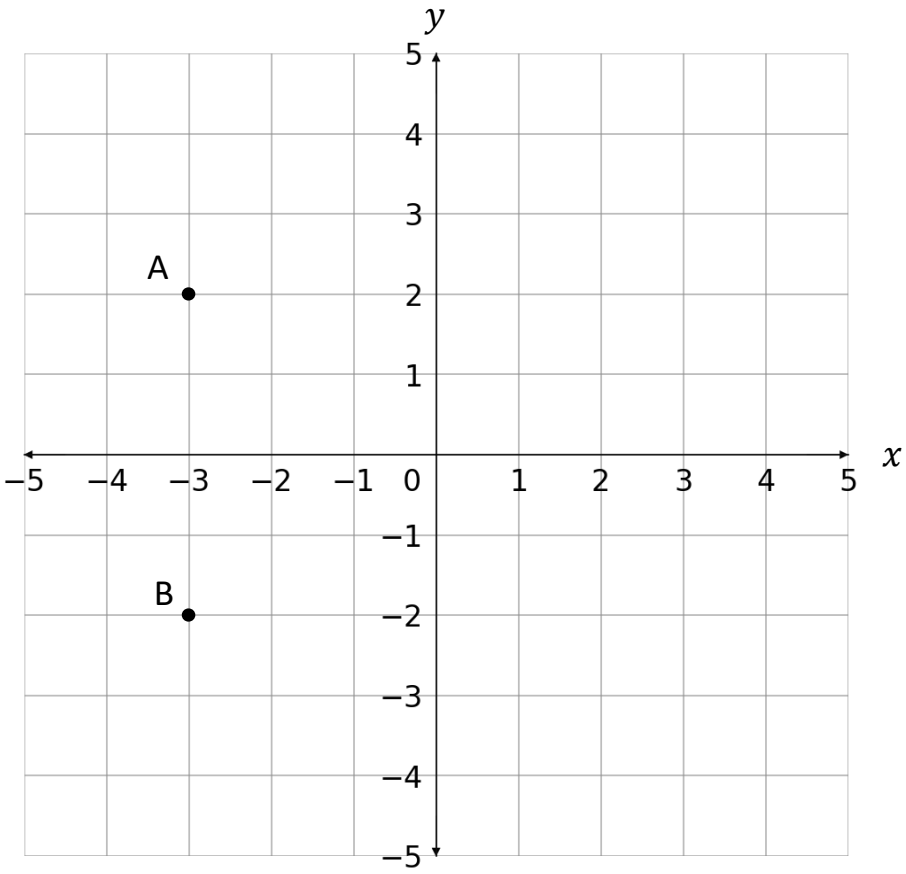

Key: $1 \text{ square} = 1 \text{ cm}^2$

Points A and B have been plotted on the grid above. Given that ABC is an isosceles triangle with a height of $5 \text{ cm}$, what could the coordinates of point C be on this grid?

**[1 mark]**

1

**Q7**



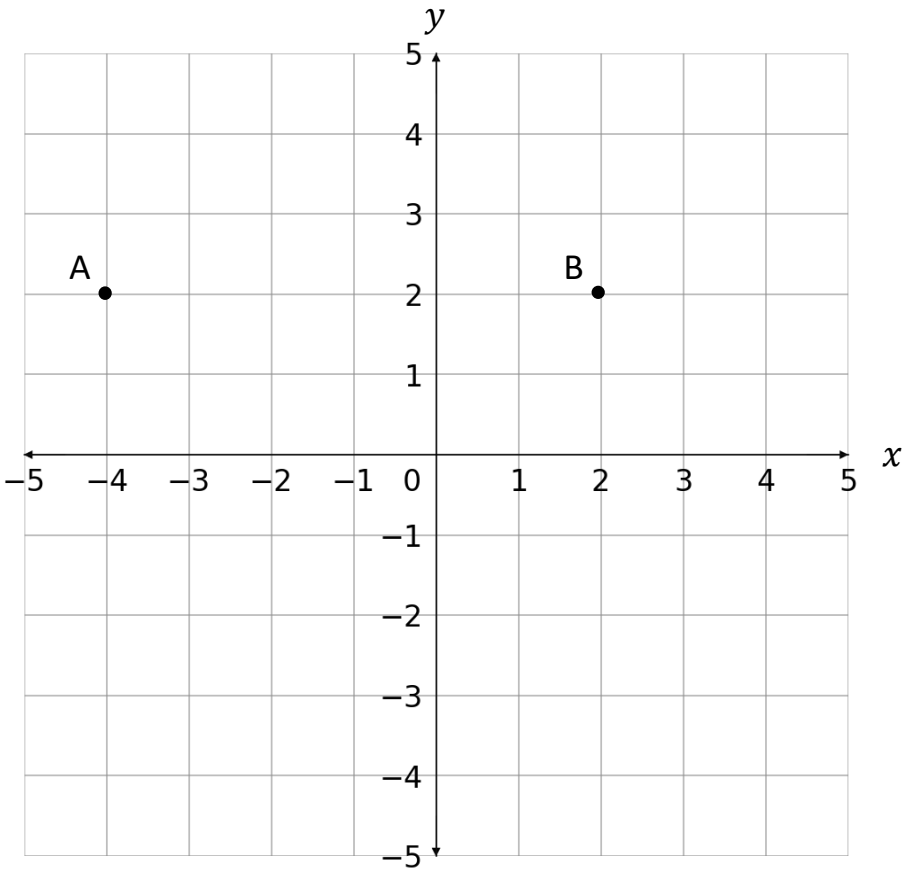

Key: $1 \text{ square} = 1 \text{ cm}^2$

Points A and B have been plotted on the grid above. Given that ABCD is a square, what could the coordinates of points C and D be on this grid?

**[2 marks]**

2

**Q8**




Key: $1 \text{ square} = 1 \text{ cm}^2$

Points A and B have been plotted on the grid above. Given that ABC is a triangle with an area of $15 \text{ cm}^2$, what could the coordinates of point C be on this grid?
Show your working.

**[3 marks]**

3