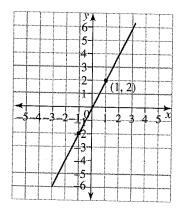
Coordinate geometry

All Multiple Choice

1



The gradient of this graph is:

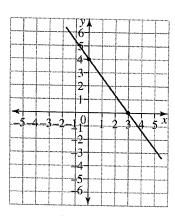
A 0.5

B –2

C 2

D -0.5

2



The y-intercept of this graph is:

A 3

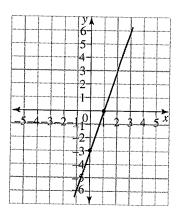
B 4

C = 0

D -3



3



The rule for this linear graph is:

A y = 3x - 3

B y = x - 3

C y = 3x - 1

D y = -3x - 3

4 A linear graph with rule y = 5x - 6 would have:

A m = 6, b = -5

B m = 6, b = 5

C m = 5, b = 6

D m = 5, b = -6.

5 What is the x-intercept of the graph of the linear rule y = 2x - 12?

A x = 6

B y = 6

C x = 12

D y = -12

6 A straight line passes through the points (5, 1) and (1, 5). Its gradient is:

A 5

В

C -1

1

D -5

- 7 The rule for the straight line in question 6 is:
 - A y = -5x + 1
 - $\mathbf{B} \qquad y = -x + 6$
 - C y = x + 6
 - D y = -x + 5
- 8 The x-intercept for the graph of the linear rule 5x 10y = 20 is:
 - A x = 20
 - B x = -4
 - C x = 4
 - D x = -2
- 9 The gradient of the straight line described in question 8 is:
 - A 5
 - $B \frac{1}{2}$
 - $C = \frac{1}{2}$
 - D -2
- The straight line which has an x-intercept of 3 and a y-intercept of 6 has a gradient of:
 - $A \qquad 2$
 - B –2
 - C 0.5
 - D -0.5
- 11 The equation of a linear graph with an x-intercept of -2 and a y-intercept of -4 is:
 - A 2x + y 4 = 0
 - $\mathbf{B} \quad 2x y 4 = 0$
 - C 2x y + 4 = 0
 - D 2x + y + 4 = 0
- The equation of a linear graph with gradient 3 and x-intercept -3 is:
 - $A \quad 3x y 3 = 0$
 - $B \quad 3x + y 3 = 0$
 - C 3x y + 9 = 0
 - D 3x y 9 = 0

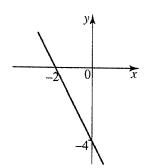
- 13 The equation of a linear graph with gradient -1 and passing through (-2, 7) is:
 - $A \quad x + y + 5 = 0$
 - $B \quad x + y 5 = 0$
 - C x y 5 = 0
 - D x y + 5 = 0
- The equation of a linear graph which passes through (-4, 2) and (-3, 1) is:
 - $A \quad x + y + 2 = 0$
 - $B \quad x + y + 4 = 0$
 - $C \quad x + y + 1 = 0$
 - D x + y + 5 = 0
- The equation of a linear graph which passes through the origin and (-6, 5) is:
 - $A \quad 5x + 6y = 0$
 - B 5x 6y = 0
 - C 6x + 5y + 5 = 0
 - $D \quad 6x 5y = 0$
- To plot the graph of 6x 2y = 6, this table of values is constructed:

х	0	1		3
у	_3	0	3	

The missing x and y values are:

- A x = -2, y = 6
- B x = 2, y = 6
- C x = 2, y = -6
- D x = -2, y = -6
- 17 If the gradient of the line passing through (-3, 5) and (2, y) is -1, then y equals:
 - A 3
 - B -1
 - C -3
 - D 0

18 The gradient of the line shown is:

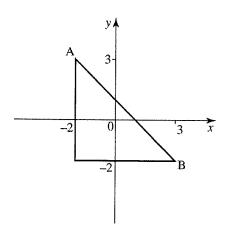


A -2

ď

- $\mathbf{B} = -\frac{1}{2}$
- $C = \frac{1}{2}$
- D 2
- The equation of the line which passes through the points (-4, 7) and (1, -3) is:
 - A y = 2x + 1
 - $\mathbf{B} \quad y = -2x + 1$
 - C y = -2x 1
 - D y = 2x 1
- Which line is parallel to $y = \frac{1}{2}x 3$?
 - $A \qquad x + 2y 10 = 0$
 - $B \qquad x 2y 10 = 0$
 - C -x 2y 10 = 0
 - D -x 2y + 10 = 0

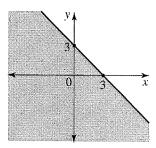
21 The distance between A and B is:



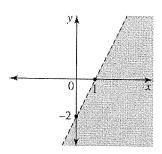
- A 5
- B $5\sqrt{2}$
- C 10
- D $\sqrt{26}$
- The distance between (7, -3) and (-1, 2) is found by calculating:
 - A $\sqrt{(7+-1)^2+(2+3)^2}$
 - B $\sqrt{(2-7)^2+(-1+3)^2}$
 - C $\sqrt{(-1-7)^2+(2+3)^2}$
 - D $\sqrt{(7-1)^2+(-3+2)^2}$
- A triangle has coordinates A(1, 3), B(1, 8) and C(6, 8). Which of the following statements is false?
 - A The length of AB is 5.
 - B AB is at right angles to BC.
 - C BC is twice the magnitude of AB.
 - D Triangle ABC is isosceles.
- 24 The midpoint of the line segment between the point (7, -2) and (-1, 6) is:
 - A (4, 2)
 - $\mathbf{B} \quad (3,2)$
 - C (-3, 2)
 - D (6,4)

- The gradient of the line parallel to 3x + 11y 2 = 0 is:
 - A $\frac{3}{11}$
 - B $-\frac{3}{11}$
 - $C = \frac{11}{3}$
 - D $-\frac{11}{3}$
- The equation of the line parallel to 5x-7y+1=0 and passing through the point (-1, -1) is:
 - A 5x 7y + 3 = 0
 - $B \qquad 7x 5y + 9 = 0$
 - $C \qquad 7x 5y + 2 = 0$
 - D 5x 7y 2 = 0
- 27 The gradient of the line perpendicular to 3x 4y + 2 = 0 is:
 - A 3
 - $B = \frac{4}{3}$
 - $C = \frac{3}{4}$
 - $D \frac{4}{3}$
- 28 The perpendicular bisector of the line joining A(2, 7) and B(-6, 11) has gradient:
 - $A \qquad \frac{1}{2}$
 - $B \frac{1}{2}$
 - C 2
 - D -2

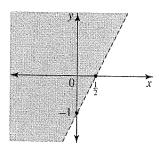
29 The shaded region shown in the figure below is represented by which of the following inequalities?



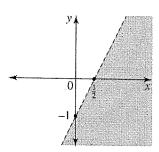
- A $y \ge 3 x$
- B $y \le 3 x$
- C $y \ge 3 + x$
- D $y \le 3 + x$



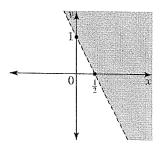
В



C



D



..\MQ9 NSW 5 3 TestYourself Ans\MQ9 5 3 Ch10 TY ans.doc

(i) C

(8) C

(15) A (22) C (29) B

(2) B

(9) C

(16) B

(23) C

*(3*0) C

(3) A

(10) B

(17) D

(24)B

(4) D

(1) D

(18)A

(25) B

(5) A

(12)C

(19)C

(26)D

(6) C

(B)B

(2c)B

(27)D

(7) B

(14) A

(21) B

(28)C