



# New Maths GCSE: A1 - Higher Straight Line Graphs Quiz

Name:.....

Date:.....

What is the gradient of the line?

A 2

B 3

C -1.5

D  $\frac{1}{2}$

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

What is the equation of the line?

A  $2x + 3$

B  $3x + 2$

C  $y = 2x + 3$

D  $y = 3x + 2$

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

Which line would be parallel to this graph?

A  $y = 2x + 5$

B  $y = 3x + 3$

C  $y = \frac{1}{2}x + 3$

D  $y = -\frac{1}{2}x - 1$

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

Which line is perpendicular to the red line?

A green  
B orange  
C blue  
D purple

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

What is the gradient of the purple line?

A -2  
B  $-\frac{1}{2}$   
C 2  
D  $\frac{1}{2}$

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

What is the gradient of this line?

A 3  
B  $-\frac{1}{3}$   
C -3  
D  $\frac{1}{3}$

Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....

What is the gradient of a perpendicular line?

A 3  
B  $-\frac{1}{3}$   
C -3  
D  $\frac{1}{3}$

Correct Answer: A B C D

Explanation:

.....

.....

.....

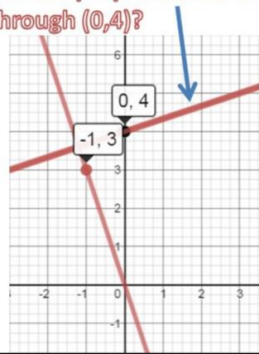
.....

.....

.....

What is the equation of the perpendicular line passing through (0,4)?

- A  $y = \frac{1}{3}x + 4$
- B  $y = 3x + 4$
- C  $y = \frac{1}{3}x - 4$
- D  $y = -3x + 4$



Correct Answer: A B C D

Explanation:

.....

.....

.....

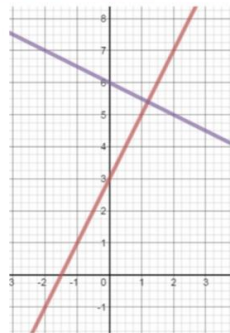
.....

.....

.....

What is the equation of the purple line?

- A  $y = -2x + 6$
- B  $y = -\frac{1}{2} + 6x$
- C  $y = -2 + 6x$
- D  $y = -\frac{1}{2}x + 6$



Correct Answer: A B C D

Explanation:

.....

.....

.....

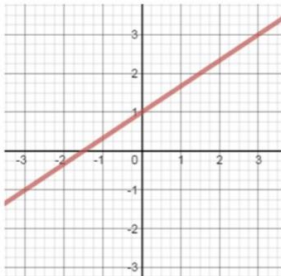
.....

.....

.....

Which line is perpendicular to the line drawn?

- A  $y = \frac{3}{2}x + 4$
- B  $y = \frac{2}{3}x - 1$
- C  $y = -\frac{3}{2}x + 2$
- D  $y = -\frac{2}{3}x + 1$



Correct Answer: A B C D

Explanation:

.....

.....

.....

.....

.....

.....