

Name: _____

ASM Tuition Academy

Gradient of a Line

Instructions:

- Use **black** ink or ballpoint pen.
- Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are **NOT** accurately drawn unless otherwise indicated.
- You must **show all you're working out**.

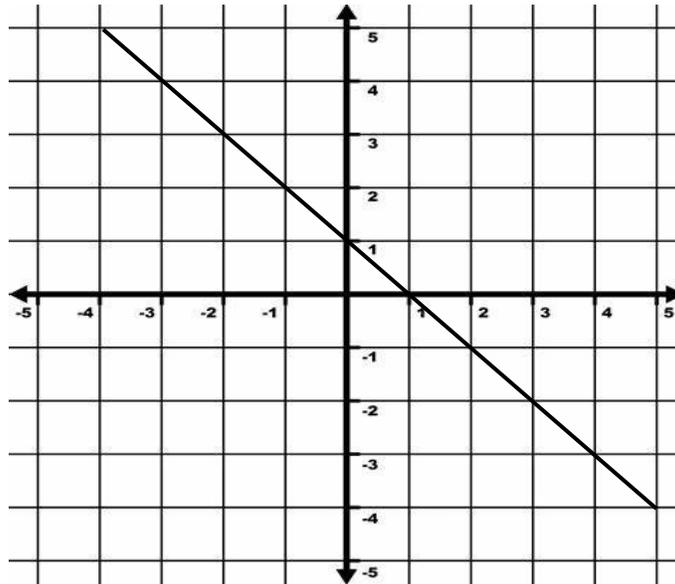
Information:

- The marks for each question are shown in brackets
- use this as a guide as to how much time to spend on each question.

Advice:

- Read each question carefully before you start to answer it.
- Keep an eye on time.
- Try to answer every question.
- Check your answers if you have time at the end.

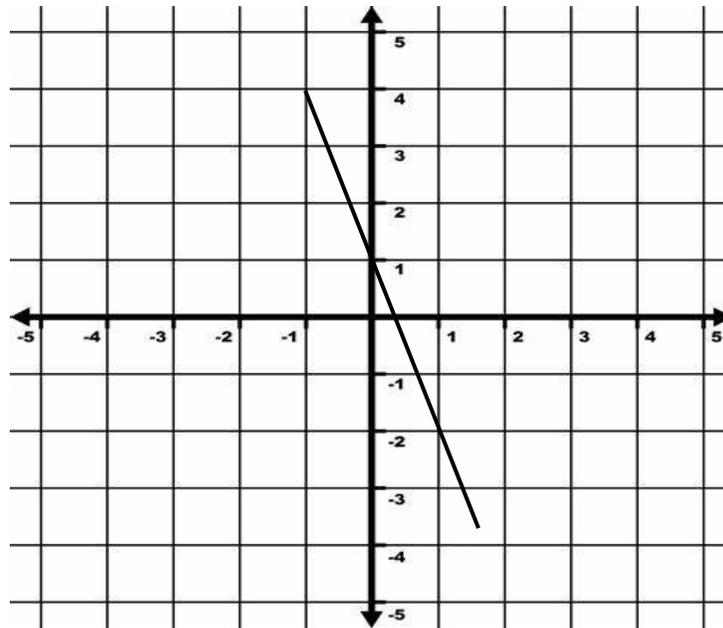
1. The line L is drawn on the grid below. L



Find the gradient of a line L.

(Total for question 1 is 1 mark)

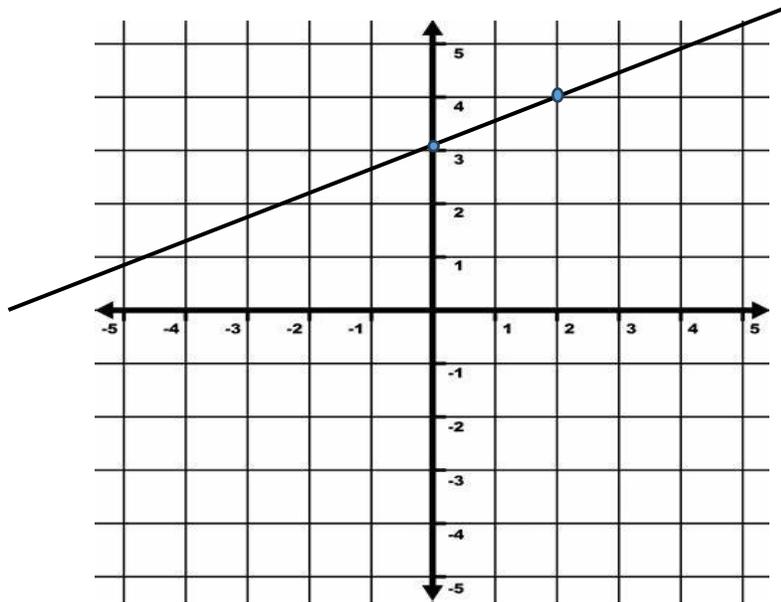
2. The line L is drawn on the grid below.



Find the gradient of a line L.

(Total for question 2 is 1 mark)

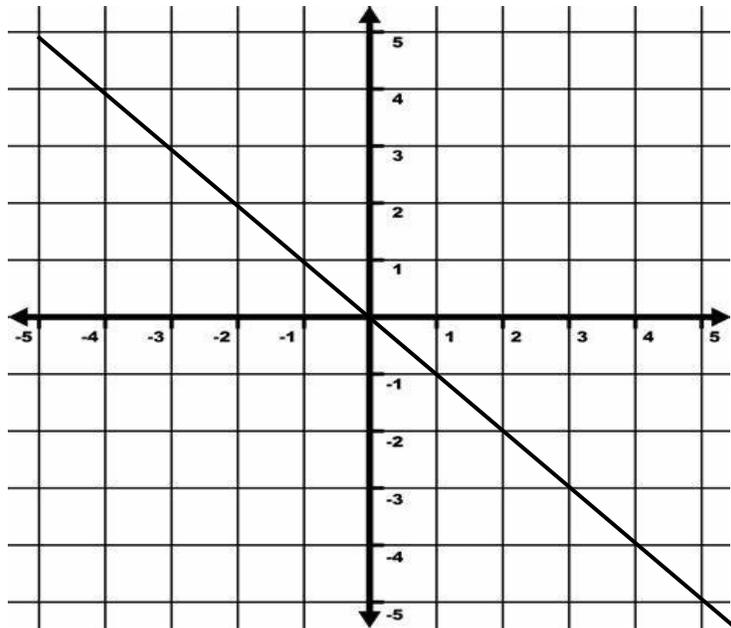
3. The line L is drawn on the grid below.



Find the gradient of a line L.

(Total for question 3 is 1 mark)

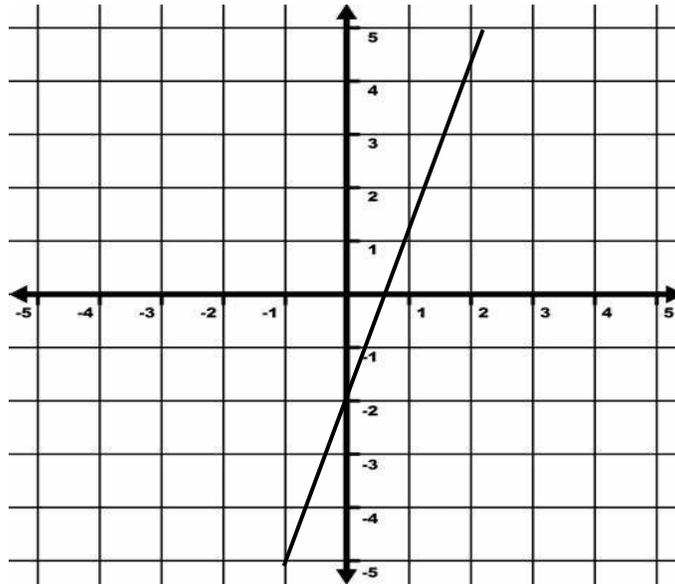
4. The line L is drawn on the grid below.



Find the gradient of a line L.

(Total for question 4 is 1 mark)

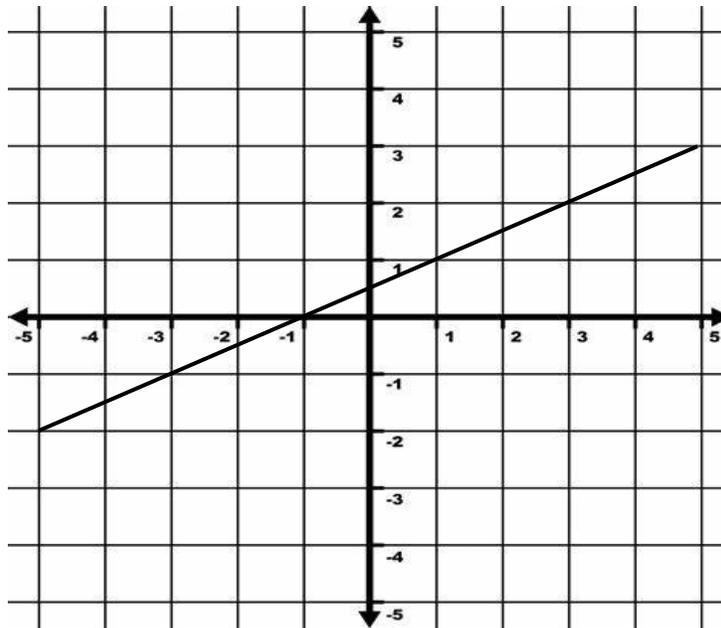
5. The line L is drawn on the grid below.



Find the gradient of a line L.

(Total for question 5 is 1 mark)

6. The line L is drawn on the grid below.



Find the gradient of a line L.

(Total for question 6 is 1 mark)

7. Find the gradient of the line that passes through (1, 2) and (10, 5).

(Total for question 7 is 2 marks)

8. Find the gradient of the line that passes through (6, 4) and (9, 3).

(Total for question 8 is 2 marks)

9. Find the gradient of the line that passes through (-4, 2) and (4, 8).

(Total for question 9 is 2 marks)

10. Find the gradient of the line that passes through (2, 8) and (0, 10).

(Total for question 10 is 2 marks)

11. Find the gradient of the line that passes through (1, -1) and (-7, -9).

(Total for question 11 is 2 marks)

12. Find the gradient of the line that passes through (7, 2) and (4, -4).

(Total for question 12 is 2 marks)

13. Find the gradient of the line that passes through (5, -3) and (-1, 9).

(Total for question 13 is 2 marks)

14. Find the gradient of the line that passes through (-1, -2) and (-5, 7).

(Total for question 14 is 2 marks)

15. Find the gradient of the line that passes through (1, -2) and (-6, 9).

(Total for question 15 is 2 marks)

16. The line passes through the points A(-2, 3) and (k, 15)
The gradient of AB is 4
Work out the value of k.

(Total for question 16 is 3 marks)

17. The line passes through the points A(5, -3) and (2, k)
The gradient of AB is 6
Work out the value of k.

(Total for question 17 is 3 marks)

18. The line passes through the points A(-2, 4) and (8, k)
The gradient of AB is 3
Work out the value of k.

(Total for question 18 is 3 marks)