



National 5 Maths

Finding the Gradient or an Intercept from a given Straight Line Equation

SQA past paper and specimen paper questions and answers by topic

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National 5 Maths
SQA 2014 Paper 1
Question 11

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- (a) A straight line has equation $4x + 3y = 12$.
Find the gradient of this line. 2
- (b) Find the coordinates of the point where this line crosses the x -axis. 2
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Answers:

- (a) $-\frac{4}{3}$
- (b) $(3, 0)$

National 5 Maths
SQA 2017 Paper 2
Question 11

A straight line has equation $3x - 5y - 10 = 0$.
Find the gradient of this line.

2

Answer:

$\frac{3}{5}$ or 0.6

National 5 Maths
SQA 2018 Paper 2
Question 14

A straight line has equation $2x - 5y = 20$.

Find the coordinates of the point where this line crosses the y -axis.

2

Answer:

$(0, -4)$

National 5 Maths
SQA 2021 Paper 2
Question 9

A straight line has equation $3x + 4y - 8 = 0$.

- (a) Find the gradient of the line. 2
- (b) State the coordinates of the point where the line crosses the y -axis. 1
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Answers:

- (a) $-\frac{3}{4}$ or -0.75
- (b) $(0, 2)$

National 5 Maths
SQA 2024 Paper 1
Question 11

A straight line has equation $x + 4y - 24 = 0$.

Find the gradient of this line.

2

Answer:

$-\frac{1}{4}$ or -0.25