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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**

Answers:

(a) $-\frac{4}{3}$

(b) $(3,0)$

National 5 Maths
SQA 2017 Paper 2
Question 11

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A straight line has equation $3x - 5y - 10 = 0$.

Find the gradient of this line. 2

Answer:

$\frac{3}{5}$ or $0 \cdot 6$

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SQA 2018 Paper 2
Question 14

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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)

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SQA 2021 Paper 2
Question 9

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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**

Answers:

(a) $-\frac{3}{4}$ or $-0{\cdot}75$

(b) (0, 2)