SQA Past paper questions

2022 – Paper 1 – Question 1

Determine the equation of the line perpendicular to $5x+2y=7$, passing through $(-1,6)$. 3

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2019 – Paper 1 – Question 7

The line, L, makes an angle of 30° with the positive direction of the x-axis.

Find the equation of the line perpendicular to L, passing through $(0,-4)$. 4

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2017 – Paper 1 – Question 11

A and B are the points $(-7, 2)$ and $(5, a)$.

AB is parallel to the line with equation $3y - 2x = 4$.

Determine the value of a. 3

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2016 – Paper 1 – Question 1

Find the equation of the line passing through the point $(-2, 3)$ which is parallel to the line with equation $y+4x=7$. 2

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Specimen – Paper 1 – Question 5

Line l_1 has equation $\sqrt{3}y - x = 0$.

(a) Line l_2 is perpendicular to l_1. Find the gradient of l_2. 2

(b) Calculate the angle l_2 makes with the positive direction of the x-axis. 2

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2007 – Paper 1 – Question 1

Find the equation of the line through the point $(-1, 4)$ which is parallel to the line with equation $3x - y + 2 = 0$. 3

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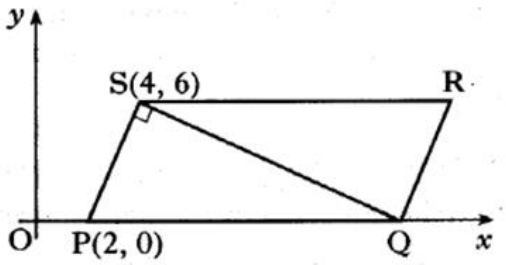
2006 – Paper 2 – Question 1

PQRS is a parallelogram. P is the point (2, 0), S is (4, 6) and Q lies on the x-axis, as shown.

The diagonal QS is perpendicular to the side PS.



(*a*) Show that the equation of QS is $x + 3y = 22$. **4**

(*b*) Hence find the coordinates of Q and R. **2**

Click here for video solution.

2003 – Paper 1 – Question 1

Find the equation of the line which passes through the point $(-1, 3)$ and is perpendicular to the line with equation $4x + y - 1 = 0$. 3

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2001 – Paper 1 – Question 1

Find the equation of the straight line which is parallel to the line with equation $2x + 3y = 5$ and which passes through the point $(2, -1)$. 3

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