

National 5 Maths

Linear Inequalities

SQA past paper and specimen paper
questions and answers by topic

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National 5 Maths
SQA 2013 Specimen
Paper 2 Question 12

Find the range of values of p such that the equation $px^2 - 2x + 3 = 0$, $p \neq 0$, has no real roots.

4

Answer:

$$p > \frac{1}{3}$$

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SQA 2015 Paper 1
Question 2

Solve algebraically the inequality

$$11 - 2(1 + 3x) < 39$$

3

Answer:

$$x > -5$$

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SQA 2017 Paper 1
Question 8

Solve, algebraically, the inequality

$$19 + x > 15 + 3(x - 2).$$

3

Answer:

$$x < 5$$

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SQA 2018 Paper 2
Question 4

Solve, algebraically, the inequation

$$3x < 6(x - 1) - 12.$$

3

Answer:

$$x > 6$$

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SQA 2021 Paper 1
Question 11

Solve, algebraically, the inequation $1 - (x + 4) > 2x$.

3

Answer:

$$x < -1$$

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SQA 2023 Paper 1
Question 14

Solve, algebraically, the inequation $\frac{x+1}{3} - 2 > \frac{3x}{5}$.

3

Answer:

$$x < -\frac{25}{4} \text{ or } -\frac{25}{4} > x$$

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SQA 2024 Paper 2
Question 4

Solve, algebraically, the inequation

$$5(x-2)+4 < 7x+8.$$

3

Answer:

$$-7 < x \text{ or } x > -7$$