

Round your answer to the nearest tenth. (2 marks)

[illegible]

6. Indices (226467)

Simplify the expression $\frac{(12x)^0}{4} \times \frac{5x}{3}$. (1 mark)

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7. Indices (226565)

Find a and b such that a, b are real numbers and

$$\frac{6\sqrt{3} - \sqrt{5}}{2\sqrt{5}} = a + b\sqrt{15}.$$

(2 marks)

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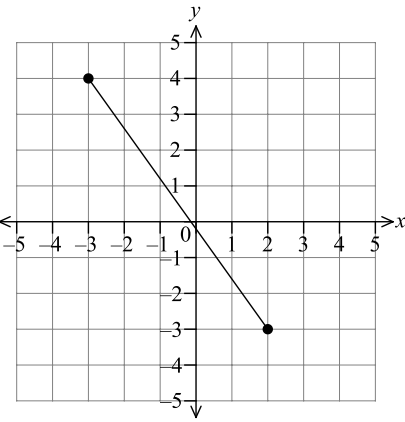
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8. Cartesian Plane (228384)

Rambo drew a line as shown on the grid below.



What is the gradient of Rambo's line? (3 marks)

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9. Indices (005374)

Fully simplify $\frac{4x^2}{3y} \div \frac{xy}{5}$. (3 marks)

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10. Distributive Laws (226209)

Factorise the expression $-a^2 + 3a + 10$ (2 marks)

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11. Distributive Laws (226288)

Factorise the expression $5b^3 - 5b$ (2 marks)

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12. Indices (226472)

Simplify the expression $\frac{16x^5}{2x^{-3}}$. (1 mark)

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13. Distributive Laws (226293)

Fully factorise the expression $2x^2 - 6xy - 3x + 9y$ (2 marks)

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14. Indices (226632)

Find the reciprocal of $\frac{1}{a} + \frac{1}{b} - \frac{c}{ab}$. (3 marks)

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