A045 Solving quadratics 1

Q1.

Solve $x^2 + 5x - 24 = 0$

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(Total for question = 3 marks)

Q2.

(a) (i) Factorise $x^2 - 12x + 27$

(ii) Solve the equation $x^2 - 12x + 27 = 0$

(3)

(b) Factorise $y^2 - 100$

(1)

(Total for Question is 4 marks)

Q3.

(a) Expand and simplify $(e + 3)(e – 5)$

(2)

(b) Solve $y = \frac{2y + 1}{5}$

Show clear algebraic working.

(3)

(c) Solve $x^2 + 3x – 18 = 0$

Show your working clearly.

(3)

(Total for question = 8 marks)

Q4.

Solve $x^2 - 6x - 55 = 0$

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(Total for question = 3 marks)

Q5.

Solve $x^2 - 17x + 72 = 0$

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(Total for question = 3 marks)

Q6.

Solve $x^2 - 2x - 8 = 0$

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(Total for question = 3 marks)

Q7.

Solve $9x^2 - 100 = 0$

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(Total for question = 2 marks)

Q8.

Solve $p^2 - 25 = 0$

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(Total for question = 2 marks)

Q9.

Solve $81 - x^2 = 0$

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(Total for question = 2 marks)

Q10.

Solve $144 - 25y^2 = 0$

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(Total for question = 3 marks)