JP Maths Revision

Solving Quadratic Equations (Factorising)

Exam Style Questions

1. Solve $(x + 2)(x - 1) = 0$

…….. (1 mark)

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2. Solve $(x - 2)(x - 6) = 0$

…….. (1 mark)

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3. Solve $(3x - 2)(2x - 1) = 0$

…….. (1 mark)

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4. Solve $(x + 1)^2 = 0$

…….. (1 mark)

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5. Solve $x^2 - 7x + 12 = 0$

…….. (2 marks)

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6. Solve $x^2 - 4x - 12 = 0$

…….. (2 marks)

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7. Solve $x^2 + 10x + 21 = 0$

…….. (2 marks)

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8. Solve $x^2 - 10x + 16 = 0$

…….. (2 marks)

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9. Solve $x^2 - 2x - 24 = 0$

…….. (2 marks)

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10. Solve $x^2 - 5x + 6 = 0$

…….. (2 marks)

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11. Solve $x^2 - 5x - 24 = 0$

…….. (2 marks)

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12. Solve $x^2 - 9 = 0$

…….. (2 marks)

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13. Solve $x^2 - 16 = 0$

…….. (2 marks)

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14. Solve $x^2 - 10x + 25 = 0$

…….. (2 marks)

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15. Solve $3x^2 - 6x = 0$

…….. (2 marks)

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16. Solve $9x^2 + 12x = 0$

…….. (2 marks)

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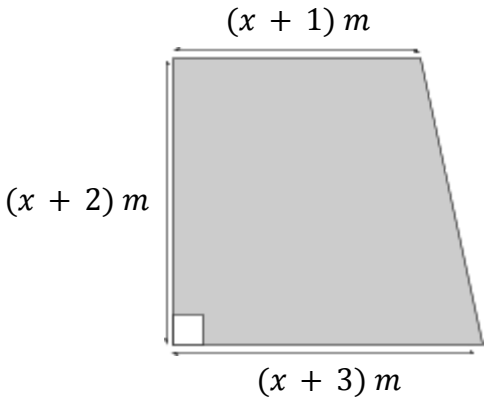
17. Sam is putting a skirting board around his room.

His room is the shape of a trapezium, and has an area of $16\ m^2$.
A pack containing $2.\ 2\ m$ of skirting board costs £13.
How much is it going to cost Sam to cover his toom?
Give your answer to the nearest pound.



£..... (5 marks)

HIGHER LEVEL

18. Solve $3x^2 + 10x + 3 = 0$

..... (3 marks)

HIGHER LEVEL

19. Solve $2x^2 + 3x + 1 = 0$

…….. (3 marks)

HIGHER LEVEL

20. Solve $6x^2 + 7x + 2 = 0$

…….. (3 marks)

HIGHER LEVEL

21. Solve $4x^2 - 9 = 0$

…….. (2 marks)

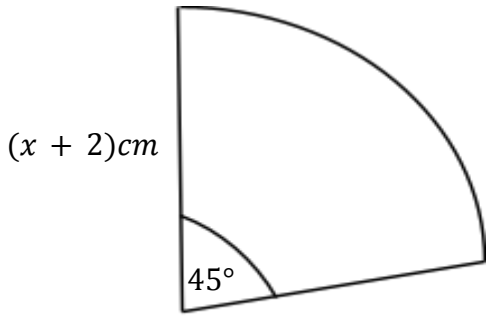
HIGHER LEVEL

22. Solve $16x^2 - 100 = 0$

…….. (2 marks)

HIGHER LEVEL

23. The area of the below sector is $6.125\pi\ cm^2$. Find the arc length.



…….. (5 marks)