

Factorising quadratics

1. Factorise $x^2 + 7x + 10$

$$(x + 2)(x + 5)$$

(2 marks)

2. Factorise $x^2 + 9x + 18$

$$(x + 3)(x + 6)$$

(2 marks)

3. Factorise $x^2 + 10x + 9$

$$(x + 9)(x + 1)$$

(2 marks)

4. Factorise $x^2 + 11x + 24$

$$(x + 8)(x + 3)$$

(2 marks)

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5. Factorise $x^2 + 3x - 10$

$$(x + 5)(x - 2)$$

(2 marks)

6. Factorise $x^2 - x - 56$

$$(x + 7)(x - 8)$$

(2 marks)

7. Factorise $x^2 - 6x - 55$

$$(x - 11)(x + 5)$$

(2 marks)

8. Factorise $x^2 + 3x - 28$

$$(x + 7)(x - 4)$$

(2 marks)

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9. Factorise $x^2 - 10x + 24$

$$(x - 6)(x - 4)$$

(2 marks)

Factorise $x^2 - 14x + 24$

$$(x - 12)(x - 2)$$

(2 marks)

10. Factorise $x^2 - 13x + 30$

$$(x - 10)(x - 3)$$

(2 marks)

11. Factorise $x^2 - 13x + 40$

$$(x - 8)(x - 5)$$

(2 marks)

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12. Factorise $x^2 - 25$

$$(x + 5)(x - 5)$$

(2 marks)

13. Factorise $x^2 - 144$

$$(x + 12)(x - 12)$$

(2 marks)

14. Factorise $x^2 - 81$

$$(x + 9)(x - 9)$$

(2 marks)

15. Factorise $x^2 - 169$

$$(x + 13)(x - 13)$$

(2 marks)

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16. The expression for area of the rectangle is $x^2 + 9x + 14 \text{ cm}^2$.
One of the width of the rectangle is $(x + 2) \text{ cm}$, find the length.



$$(x + 7) \text{ cm}$$

(2 marks)

17. Tommy is doing his maths homework.
Has he factorised it correctly?

Give
answer.

reasons for your

Factorise:

$$x^2 - 10x - 24$$

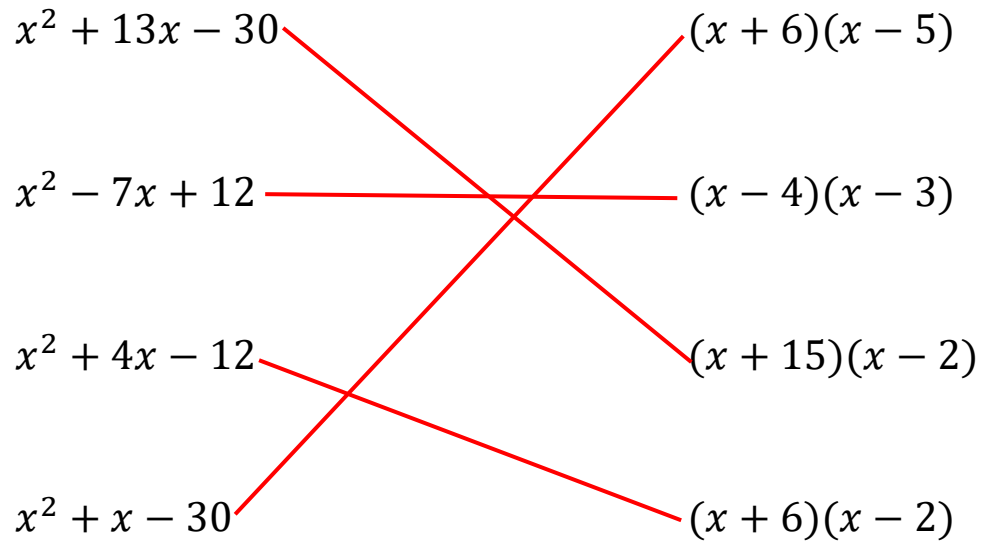
$$(x - 4)(x - 6)$$

*No the -4 and -6 multiply to make $+24$ not -24
Should be $(x - 12)(x + 2)$*

Factorising quadratics

(2 marks)

18. Match up the expression with the correct factorisation.



(4 marks)