



New Maths GCSE: A4 - Factorising Quadratics

Name:.....

Date:.....

If you factorise $x^2 - 4x - 12$ you get:

- a) $(x + 6)(x + 2)$
- b) $(x - 6)(x - 2)$
- c) $(x - 6)(x + 2)$
- d) $(x + 6)(x - 2)$

Correct Answer: A B C D

Explanation:

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Factorise the following quadratic expression:

$x^2 + 10x - 24$

- a) $(x - 4)(x - 6)$
- b) $(x + 6)(x - 4)$
- c) $(x + 12)(x - 2)$
- d) $(x - 12)(x + 2)$

Correct Answer: A B C D

Explanation:

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$x^2 + 3x - 10$

Which is a correct factorisation of the quadratic expression?

- A) $(x + 5)(x + 2)$
- B) $(x - 5)(x + 2)$
- C) $(x + 5)(x - 2)$
- D) $(x - 5)(x - 2)$

Correct Answer: A B C D

Explanation:

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$$x^2 + x - 20$$

Which is a correct factorisation of the quadratic expression?

- A) $(x - 5)(x - 4)$
- B) $(x + 5)(x - 4)$
- C) $(x - 5)(x + 4)$
- D) $(x + 5)(x + 4)$

Correct Answer: A B C D

Explanation:

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$$x^2 - 2x - 15$$

Which is a correct factorisation of the quadratic expression?

- A) $(x - 5)(x + 3)$
- B) $(x + 5)(x - 3)$
- C) $(x - 5)(x - 3)$
- D) $(x + 5)(x + 3)$

Correct Answer: A B C D

Explanation:

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$$x^2 - 2x - 8$$

Which is a correct factorisation of the quadratic expression?

- A) $(x - 4)(x - 2)$
- B) $(x + 4)(x + 2)$
- C) $(x - 4)(x + 2)$
- D) $(x + 4)(x - 2)$

Correct Answer: A B C D

Explanation:

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Factorise $x^2 + 8x + 12$

- a) $(x+8)(x+12)$
- b) $(x+2)(x+6)$
- c) $(x+4)(x+4)$
- d) $(x+3)(x+4)$

Correct Answer: A B C D

Explanation:

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$x^2 + 4x + 4$

A) $(x+4)^2$ B) $2(x+4)$

C) $(x+2)^2$ D) $(x+4x)^2$

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Correct Answer: A B C D

Explanation:

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$x^2 - 16$

Which is a correct factorisation of the quadratic expression?

A) $(x + 8)(x - 8)$

B) $(x - 4)^2$

C) $(x + 4)(x - 4)$

D) Doesn't factorise

Correct Answer: A B C D

Explanation:

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$x^2 - 4x$

Which is a correct factorisation of the quadratic expression?

A) $(x + 2)(x - 2)$

B) $x(x - 4)$

C) $(x + 1)(x - 4)$

D) Doesn't factorise

Correct Answer: A B C D

Explanation:

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