



New Maths GCSE: A4 - Completing the Square

Name:.....

Date:.....

$x^2 + 6x + 1$

What is this expression in completing the square form?

- A** $(x + 3)^2 - 8$
- B** $(x + 6)^2 - 35$
- C** $(x + 3)^2 + 8$
- D** $(x + 3)^2 + 9$

Correct Answer: A B C D

Explanation:

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$x^2 + 4x + 10$

What is this expression in completing the square form?

- A** $(x + 3)^2 + 14$
- B** $(x + 6)^2 + 8$
- C** $(x + 2)^2 - 6$
- D** $(x + 2)^2 + 6$

Correct Answer: A B C D

Explanation:

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$x^2 - 2x + 5$

What is this expression in completing the square form?

- A** $(x - 2)^2 + 1$
- B** $(x - 1)^2 + 4$
- C** $(x - 1)^2 + 6$
- D** $(x - 1)^2 + 3$

Correct Answer: A B C D

Explanation:

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$$x^2 - 8x + 3$$

What is this expression in completing the square form?

- A $(x - 4)^2 - 16$
- B $(x - 4)^2 - 13$
- C $(x - 4)^2 + 13$
- D $(x - 1)^2 - 5$

Correct Answer: A B C D

Explanation:

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$$x^2 + 10x - 2$$

What is this expression in completing the square form?

- A $(x + 5)^2 - 27$
- B $(x + 5)^2 - 12$
- C $(x + 5)^2 + 27$
- D $(x + 5)^2 - 23$

Correct Answer: A B C D

Explanation:

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$$x^2 - 6x - 3$$

What is this expression in completing the square form?

- A $(x - 3)^2 + 12$
- B $(x - 3)^2 + 6$
- C $(x - 3)^2 - 6$
- D $(x - 3)^2 - 12$

Correct Answer: A B C D

Explanation:

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$$x^2 - 4x - 10$$

What is this expression in completing the square form?

- A $(x - 2)^2 - 14$
- B $(x - 2)^2 + 6$
- C $(x - 2)^2 + 14$
- D $(x - 2)^2 - 6$

Correct Answer: A B C D

Explanation:

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$$x^2 - 5x + 3$$

What is this expression in completing the square form?

- A** $(x - 2.5)^2 - 2.75$
- B** $(x - 2.5)^2 - 3.25$
- C** $(x - 2.5)^2 + 9.25$
- D** $(x - 2.5)^2 - 2$

Correct Answer: A B C D

Explanation:

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$$x^2 - 6x + 9$$

What is this expression in completing the square form?

- A** $(x - 3)^2 - 9$
- B** $(x - 3)^2 + 3$
- C** $(x - 3)^2 + 9$
- D** $(x - 3)^2$

Correct Answer: A B C D

Explanation:

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$$2x^2 - 8x + 6$$

What is this expression in completing the square form?

- A** $2(x - 4)^2 - 10$
- B** $2(x - 2)^2 - 2$
- C** $(2x - 4)^2 - 10$
- D** $2(x - 2)^2 + 2$

Correct Answer: A B C D

Explanation:

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