



New Maths GCSE: A7 - Function Notation

Name:.....

Date:.....

$f(x) = 2x + 1$

What does $f(3)$ equal?

A $6x + 1$ **B** 7

C 24 **D** 6

Correct Answer: A B C D

Explanation:

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$f(x) = 2x + 1$

What does $f(0.5)$ equal?

A 3 **B** 3.5

C 2 **D** $x + 1$

Correct Answer: A B C D

Explanation:

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$f(x) = 2x + 1$

What does $f(3x)$ equal?

A $7x$ **B** 7

C $6x^2 + 1$ **D** $6x + 1$

Correct Answer: A B C D

Explanation:

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$$f(x) = 2x + 1$$

What does $f(x + 3)$ equal?

A $2x + 7$ B $2x + 4$

C $2x^2 + 6x + 1$ D $2x^2 + 4$

Correct Answer: A B C D

Explanation:

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$$g(x) = 4 - 3x$$

What does $g(2)$ equal?

A 2 B $4 - 6x$

C -28 D -2

Correct Answer: A B C D

Explanation:

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$$g(x) = 4 - 3x$$

What does $g(-1)$ equal?

A $4 + 3x$ B $4 - 3x$

C 7 D 1

Correct Answer: A B C D

Explanation:

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$$g(x) = 4 - 3x$$

What does $g(4x)$ equal?

A $4 - 7x^2$ B $4 - 12x^2$

C -8 D $4 - 12x$

Correct Answer: A B C D

Explanation:

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$$g(x) = 4 - 3x$$

What does $g(x - 1)$ equal?

- A** $4 - 4x$ **B** $4 - 3x^2 - 3x$
C $7 - 3x$ **D** $1 - 3x$

Correct Answer: A B C D

Explanation:

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$$h(x) = x^2 + 2$$

What does $h(5)$ equal?

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

Correct Answer: A B C D

Explanation:

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$$h(x) = x^2 + 2$$

What does $h(0.5)$ equal?

- A** 2.25 **B** 3
C 4.5 **D** $x + 2$

Correct Answer: A B C D

Explanation:

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$$h(x) = x^2 + 2$$

What does $h(-3)$ equal?

- A** -4 **B** -7
C 8 **D** 11

Correct Answer: A B C D

Explanation:

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$$h(x) = x^2 + 2$$

What does $h(3x)$ equal?

A $9x + 2$ B $3x^2 + 2$

C $6x^2 + 2$ D $9x^2 + 2$

Correct Answer: A B C D

Explanation:

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$$h(x) = x^2 + 2$$

What does $h(x + 1)$ equal?

A $x^2 + 3$ B $x^2 + 4$

C $x^2 + 2x + 3$ D $x^2 + 3$

Correct Answer: A B C D

Explanation:

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