

Topic: Function notation**Question:** Find the value of $f(-11)$.

$$f(x) = 12 - 3x$$

Answer choices:A -21 B 45 C -45 D 21 

Solution: B

To find the value of $f(-11)$, substitute $x = -11$ into $f(x)$.

$$f(x) = 12 - 3x$$

$$f(-11) = 12 - 3(-11)$$

$$f(-11) = 12 + 33$$

$$f(-11) = 45$$



Topic: Function notation**Question:** Find the value of $g(-5)$.

$$g(x) = 2x^2 + 3x - 32$$

Answer choices:

- A 33
- B -97
- C -27
- D 3



Solution: D

To find the value of $g(-5)$, substitute $x = -5$ into $g(x)$.

$$g(x) = 2x^2 + 3x - 32$$

$$g(-5) = 2(-5)^2 + 3(-5) - 32$$

$$g(-5) = 2(25) + 3(-5) - 32$$

$$g(-5) = 50 - 15 - 32$$

$$g(-5) = 35 - 32$$

$$g(-5) = 3$$



Topic: Function notation**Question:** Find the value of $h(12)$.

$$h(x) = x^2 - 9x + 3$$

Answer choices:

- A 6
- B 39
- C -27
- D -3



Solution: B

To find the value of $h(12)$, substitute $x = 12$ into $h(x)$.

$$h(x) = x^2 - 9x + 3$$

$$h(12) = 12^2 - 9(12) + 3$$

$$h(12) = 144 - 108 + 3$$

$$h(12) = 36 + 3$$

$$h(12) = 39$$

