

Quiz 1: Identifying a variety of Functions Graphically Quiz



Est. Length: 2:00:00 Hope Olaniyan: Attempt 1

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- ☐ C
- ☐ D

Question 2 (1 point)

Which of the following summaries describes the features of the graph below?

Domain: $x \in \mathbb{R}$
Range: $y \leq 0$
Number of zeroes (x-intercepts): One
Number of turning points: One
End behaviour as $x \rightarrow \infty$: $f(x) \rightarrow -\infty$
End behaviour as $x \rightarrow -\infty$: $f(x) \rightarrow -\infty$

A

Domain: $x \in \mathbb{R}$
Range: $y > 0$
Number of zeroes (x-intercepts): None
Number of turning points: None
End behaviour as $x \rightarrow \infty$: $f(x) \rightarrow 0$
End behaviour as $x \rightarrow -\infty$: $f(x) \rightarrow \infty$

B

Domain: $x \in \mathbb{R}$
Range: $-4 \leq y \leq 2$
Number of zeroes (x-intercepts): Infinite
(function is periodic)
Number of turning points: Infinite
End behaviour as $x \rightarrow \infty$: No end behaviour.
Periodically repeats.
End behaviour as $x \rightarrow -\infty$: No end behaviour.
Periodically repeats.

C

Domain: $x \in \mathbb{R}$
Range: $2 \leq y \leq 6$
Number of zeroes (x-intercepts): None
Number of turning points: Infinite
End behaviour as $x \rightarrow \infty$: No end behaviour.
Periodically repeats.
End behaviour as $x \rightarrow -\infty$: No end behaviour.
Periodically repeats.

D

☐ A

☐ B

☐