

QUESTION 10

QUESTION 10 **Continuity of Piecewise Functions**

Consider the piecewise function $f(x)$ defined by

(a) $f(x) = \begin{cases} x^2 + 2 & \text{if } x < 2 \\ 2x - 1 & \text{if } x \geq 2 \end{cases}$

(b) $f(x) = \begin{cases} x^2 + 2 & \text{if } x < 2 \\ 2x - 1 & \text{if } x > 2 \end{cases}$

(c) $f(x) = \begin{cases} x^2 + 2 & \text{if } x < 2 \\ 2x - 1 & \text{if } x \leq 2 \end{cases}$

(d) $f(x) = \begin{cases} x^2 + 2 & \text{if } x < 2 \\ 2x - 1 & \text{if } x < 2 \end{cases}$

Which two functions are continuous?

(a) $f(x)$ and $f(x)$ are continuous at $x = 2$. See the graph below.

(b) $f(x)$ and $f(x)$ are continuous at $x = 2$. See the graph below.

(c) $f(x)$ and $f(x)$ are continuous at $x = 2$. See the graph below.

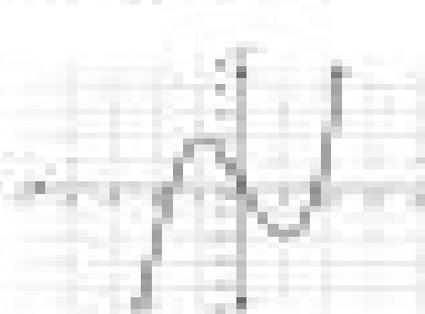
(d) $f(x)$ and $f(x)$ are continuous at $x = 2$. See the graph below.

Now show $f(x)$ is continuous at $x = 2$ using the epsilon-delta approach.

(a) $f(x)$ is continuous at $x = 2$.

(b) $f(x)$ is continuous at $x = 2$.

(c) $f(x)$ is continuous at $x = 2$.



Solution:

(a) The graph of $f(x)$ is continuous at $x = 2$ because $f(2) = 3$ and $\lim_{x \rightarrow 2^-} f(x) = 6$. The graph of $f(x)$ is not continuous at $x = 2$ because $f(2) = 3$ and $\lim_{x \rightarrow 2^+} f(x) = 6$. The graph of $f(x)$ is not continuous at $x = 2$ because $f(2) = 6$ and $\lim_{x \rightarrow 2^-} f(x) = 6$. The graph of $f(x)$ is not continuous at $x = 2$ because $f(2) = 3$ and $\lim_{x \rightarrow 2^-} f(x) = 6$.

Lesson 6 8 Transforming Polynomial Functions

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