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Section: C22

Quiz 4

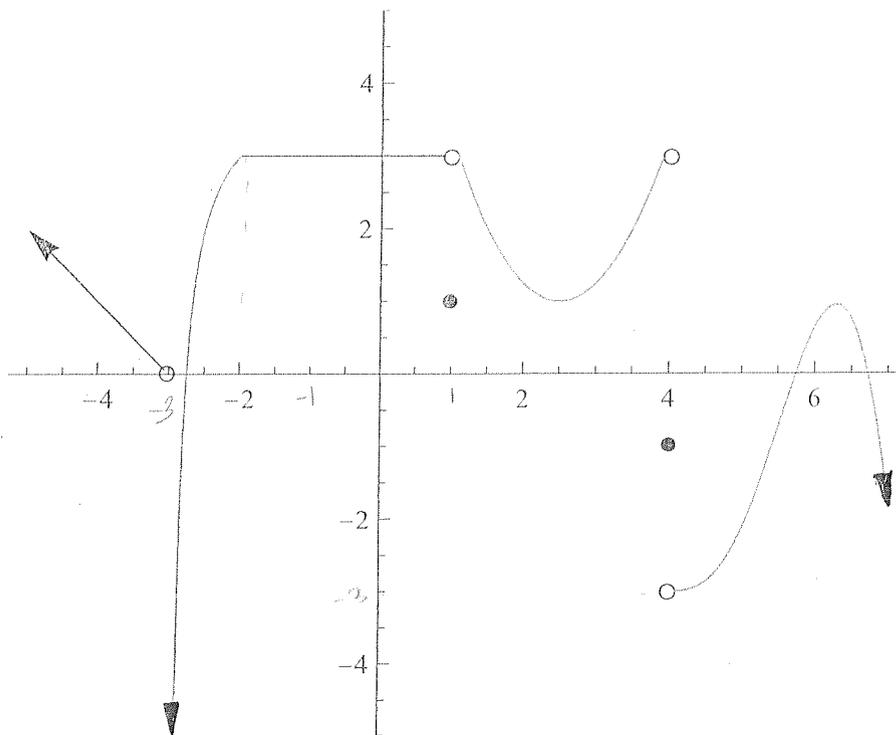
15 points

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INSTRUCTIONS: You will have 15 minutes to complete this quiz. Show all work for full credit.

Below is the graph of a function  $f(x)$ . Use it to answer the following questions.

15



1.  $\lim_{x \rightarrow -2} f(x) = 3$

2.  $\lim_{x \rightarrow 1} f(x) = 3$

3.  $\lim_{x \rightarrow 4^+} f(x) = -3$

4.  $\lim_{x \rightarrow 4^-} f(x) = 3$

5.  $\lim_{x \rightarrow -3} f(x) = \text{DNE}$  limit from right  $\neq$  limit from left  
 $-3 \neq -\infty$

6. List all the discontinuities of  $f(x)$  and state the type of discontinuity.

$f(-3)$  infinite discontinuity

$f(1)$  hole or removable discontinuity

$f(4)$  jump discontinuity