

Quiz 3A

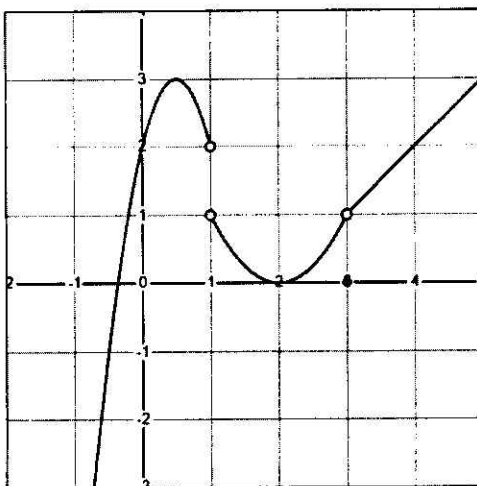
Closed book/notes. No calculators allowed.

Name:

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Solution

1. The graph of the function f is given below.



Find the following limits. If the limit does not exist, write DNE.

a) $\lim_{x \rightarrow 1^-} f(x) = 2$

b) $\lim_{x \rightarrow 1^+} f(x) = 1$

c) $\lim_{x \rightarrow 1} f(x) = \text{DNE}$ why? $\lim_{x \rightarrow 1^-} f(x) \neq \lim_{x \rightarrow 1^+} f(x)$

d) $\lim_{x \rightarrow 3} f(x) = 1$ why? $\lim_{x \rightarrow 3^-} f(x) = \lim_{x \rightarrow 3^+} f(x) = 1$

e) $f(3) = 0$

Grade: /10