

Calculus

Below is the function $g(x)$.

Refer to the graph below in order to answer the following questions. If a limit doesn't exist explain why.

1. $\lim_{x \rightarrow \infty} g(x) = h$

2. $\lim_{x \rightarrow -\infty} g(x) = i$

3. $\lim_{x \rightarrow a^+} g(x) = \infty$

4. $\lim_{x \rightarrow a^-} g(x) = \infty$

5. $\lim_{x \rightarrow a} g(x) = \infty$

6. $\lim_{x \rightarrow 0} g(x) = k$

7. $\lim_{x \rightarrow b^+} g(x) = -\infty$

8. $\lim_{x \rightarrow b^-} g(x) = 0$

9. $\lim_{x \rightarrow b} g(x) = \text{DNE, LET}$

10. $\lim_{x \rightarrow c} g(x) = \text{DNE, LET}$

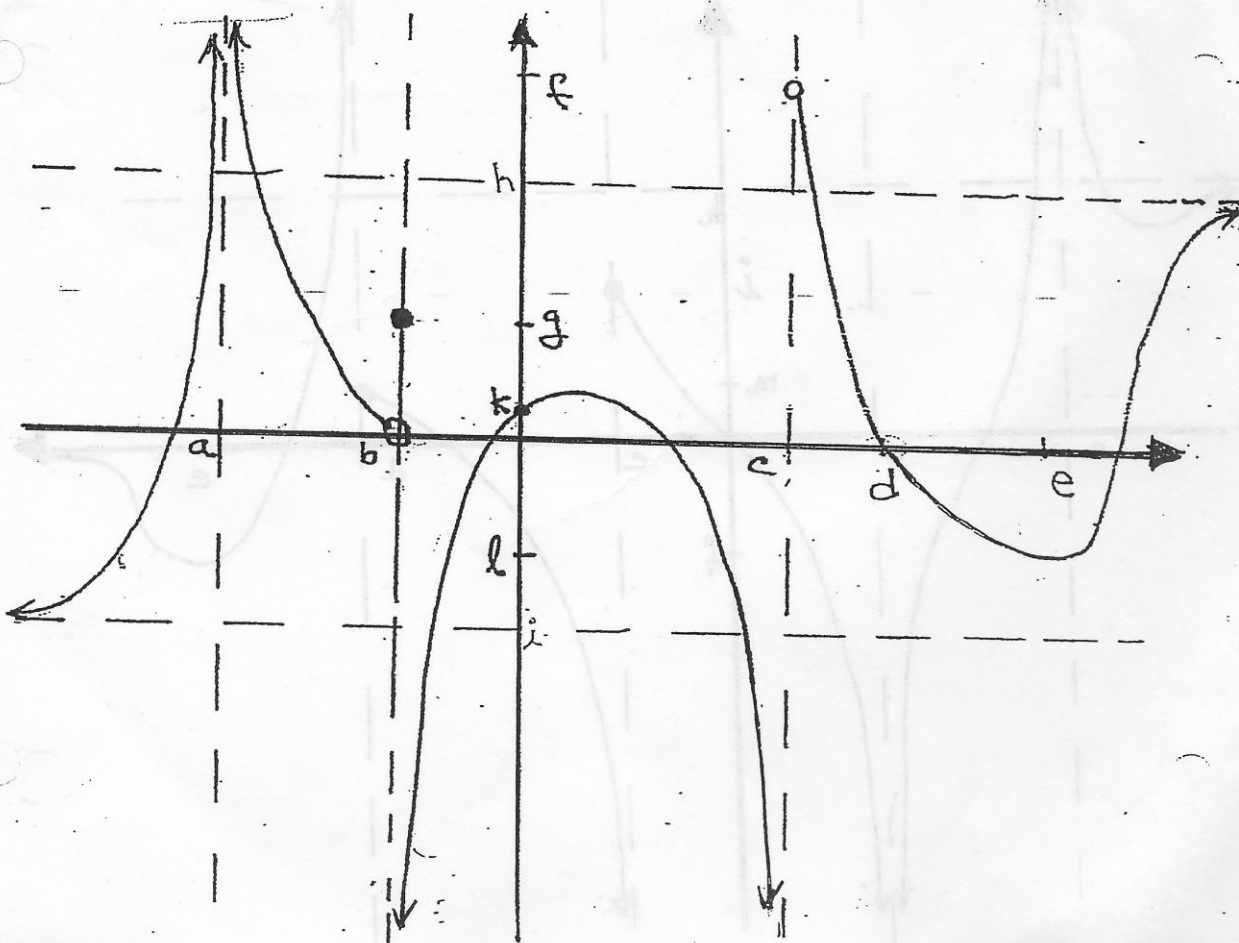
11. $\lim_{x \rightarrow d} g(x) = 0$

12. $\lim_{x \rightarrow e} g(x) = l$

13. $g(e) = l$

14. $g(0) = k$

15. $g(b) = g$



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Refer to the graph below in order to answer the following questions. If a limit doesn't exist explain why.

1. $\lim_{x \rightarrow \infty} g(x) = 0$
2. $\lim_{x \rightarrow \infty} g(x) = h$
3. $\lim_{x \rightarrow a^+} g(x) = \infty$
4. $\lim_{x \rightarrow a^-} g(x) = \infty$
5. $\lim_{x \rightarrow a} g(x) = \infty$
6. $\lim_{x \rightarrow 0} g(x) = 0$
7. $\lim_{x \rightarrow b^+} g(x) = -\infty$
8. $\lim_{x \rightarrow b^-} g(x) = -\infty$
9. $\lim_{x \rightarrow b} g(x) = -\infty$
10. $\lim_{x \rightarrow c} g(x) = \text{DNE, LET}$
11. $\lim_{x \rightarrow d} g(x) = \text{DNE, LET}$
12. $\lim_{x \rightarrow e} g(x) = f$
13. $g(e) = f$
14. $g(0) = 0$
15. $g(b) = \text{DNE}$

