

## Handout #1

## Limits: A Graphical Approach

Refer to the graph of  $g(x)$  shown below in order to answer the following questions. If a limit doesn't exist explain why.

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

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

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

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

13.  $g(0) =$

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

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

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

11.  $g(a) =$

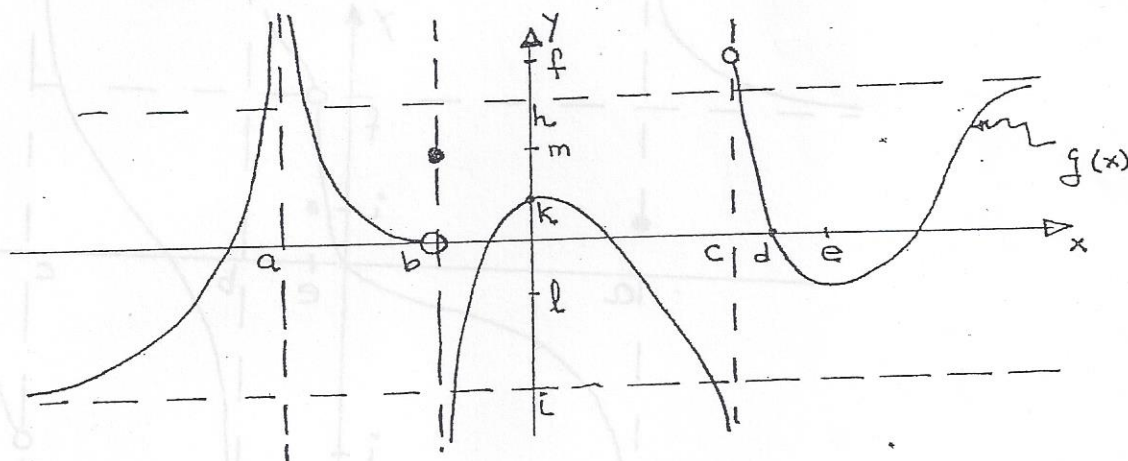
14.  $\lim_{x \rightarrow 0} g(x) =$

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

6.  $\lim_{x \rightarrow b^+} g(x) =$

9.  $\lim_{x \rightarrow c} g(x) =$

12.  $g(b) =$



## Handout # 3

## Limits: A Graphical Approach

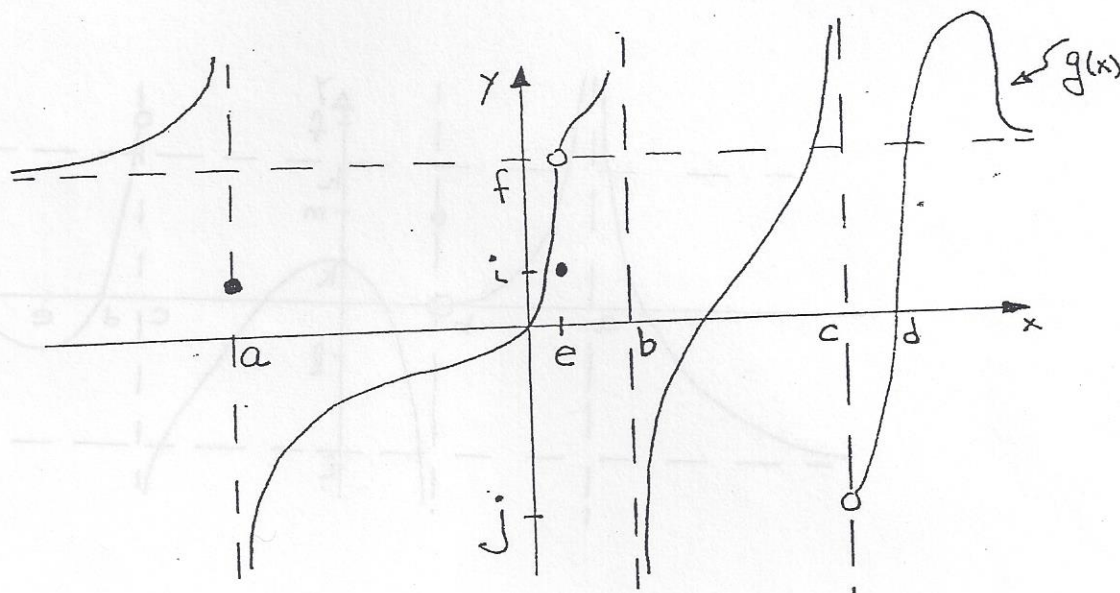
Refer to the graph of  $g(x)$  shown below in order to answer the following questions. If a limit doesn't exist explain why.

$$1. \lim_{x \rightarrow \infty} g(x) = \quad 2. \lim_{x \rightarrow -\infty} g(x) = \quad 3. \lim_{x \rightarrow a^+} g(x) = \quad 4. \lim_{x \rightarrow a^-} g(x) =$$

$$5. \lim_{x \rightarrow e} g(x) = \quad 6. \lim_{x \rightarrow b^+} g(x) = \quad 7. \lim_{x \rightarrow b} g(x) = \quad 8. \lim_{x \rightarrow 0} g(x) =$$

$$9. \lim_{x \rightarrow c^+} g(x) = \quad 10. \lim_{x \rightarrow d} g(x) = \quad 11. g(a) = \quad 12. g(b) =$$

$$13. g(0) = \quad 14. \lim_{x \rightarrow c^+} g(x) =$$



## Handout # 2

## Limits: A Graphical Approach

Refer to the graph of  $g(x)$  shown below in order to answer the following questions. If a limit doesn't exist explain why.

$$1. \lim_{x \rightarrow \infty} g(x) = \quad 2. \lim_{x \rightarrow -\infty} g(x) = \quad 3. \lim_{x \rightarrow a^+} g(x) = \quad 4. \lim_{x \rightarrow a^-} g(x) =$$

$$5. \lim_{x \rightarrow a} g(x) = \quad 6. \lim_{x \rightarrow b^+} g(x) = \quad 7. \lim_{x \rightarrow b^-} g(x) = \quad 8. \lim_{x \rightarrow b} g(x) =$$

$$9. \lim_{x \rightarrow c} g(x) = \quad 10. \lim_{x \rightarrow d} g(x) = \quad 11. g(a) = \quad 12. g(b) =$$

$$13. g(0) = \quad 14. \lim_{x \rightarrow 0} g(x) =$$

