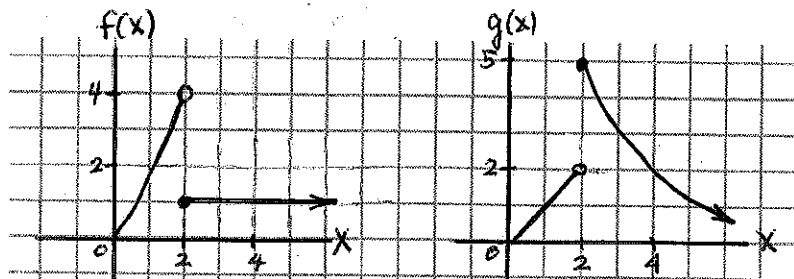


I. Evaluate by GRAPH



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

(d) $\lim_{x \rightarrow 2^-} (f + g) =$

(b) $\lim_{x \rightarrow 2^+} (f \cdot g) =$

(e) $\lim_{x \rightarrow 2^+} (f + g) =$

(c) $\lim_{x \rightarrow 2} (f \cdot g) =$

(f) $\lim_{x \rightarrow 2} (f + g) =$

II. Evaluate by CHART

$$g(x) = \frac{x}{|x-5|} + 2$$

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

(b) $\lim_{x \rightarrow 5^+} (g(x)) =$

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

III. Evaluate by SUBSTITUTION

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

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

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

(c) $\lim_{x \rightarrow 1} (f(x)) =$

IV. Evaluate ALGEBRAICALLY

$$\lim_{x \rightarrow \infty} \frac{3e^x - 2}{7 + 5e^x}$$