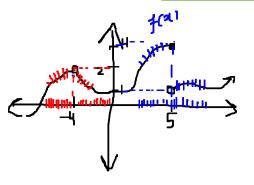
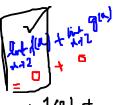
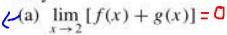
FIND LIMIT WITH GRAPH



2. Use the graphs of f and g in the accompanying figure to find the limits that exist. If the limit does not exist, explain DNE why.

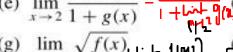


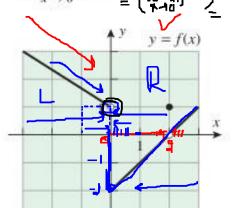


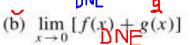


(c)
$$\lim_{x \to 0^+} [f(x) + g(x)] = 0$$

$$= (e) \lim_{x \to 2} \frac{f(x)}{1 + g(x)} = \frac{\lim_{x \to 1} f(x)}{1 + \lim_{x \to 1} f(x)}$$

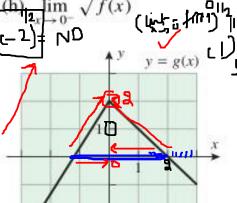


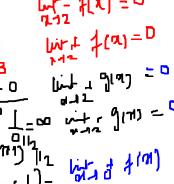


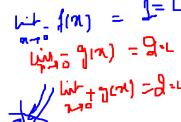


(d)
$$\lim_{x \to 0^{-}} [f(x) + g(x)]$$

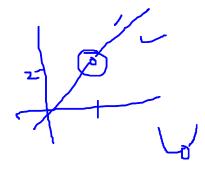
$$\lim_{x \to 2} \frac{1 + g(x)}{f(x)} = \frac{1}{1 + g(x)}$$
(h) $\lim_{x \to 2} \sqrt{f(x)}$

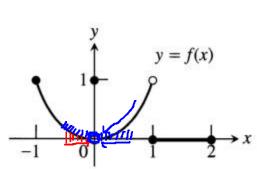






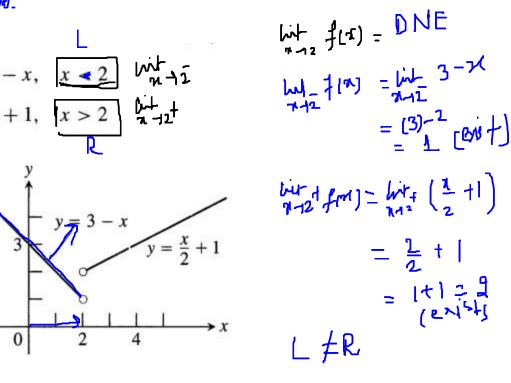


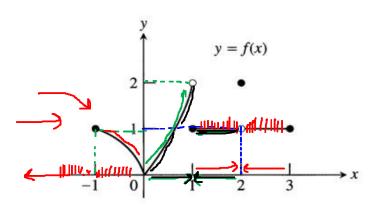




3. Let
$$f(x) = \begin{cases} 3-x, & x < 2 \\ \frac{x}{2} + 1, & x > 2 \end{cases}$$

$$y = 3-x$$





$$\frac{SH}{SH} = \frac{1}{1}$$

$$\frac{SH}{SH} = \frac{1}{1}$$

$$\frac{SH}{SH} = \frac{1}{1}$$

$$\frac{1}{1}$$

INFINITE LIMITS

