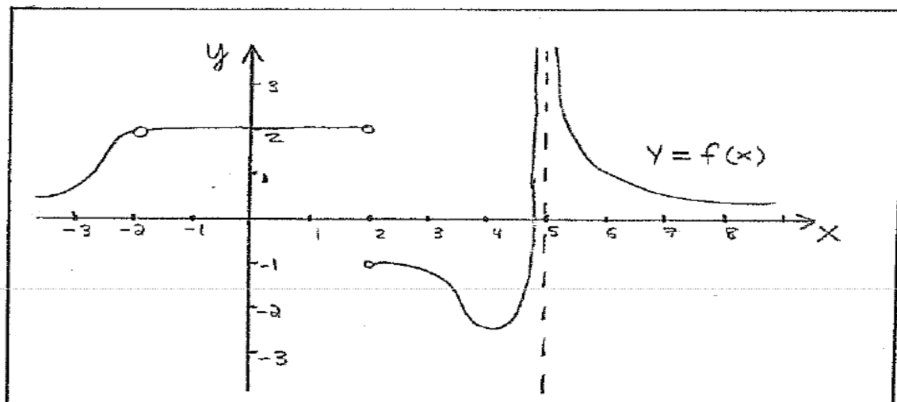


- 1.) Consider the graph below to find the indicated limits. Write the best description for the non-existent cases, write d.n.e or  $\infty$  or  $-\infty$  as appropriate.



- 2.) For the case-wised defined function  $f(x) = \begin{cases} x^2 + 2 & \text{if } x < 2 \\ \frac{1}{x} & \text{if } x \geq 2 \end{cases}$  find the following limits:

- 3.) Calculate the following indeterminant limit:

$$\lim_{x \rightarrow 2} \left( \frac{12x + 24}{x^2 - 4} \right)$$