

NameSr.#

- 1) Find the vertical asymptotes of the function

$$f(x) = \frac{x^2 - 1}{x^2 - 2x + 1}$$

- 2) Find the following limits if it exists.

a)  $\lim_{x \rightarrow 0} \left( \frac{1}{x} - \frac{1}{|x|} \right)$

b)  $\lim_{h \rightarrow 0} \frac{(3 + h)^{-1} - 3^{-1}}{h}$