

Provide a clear and organized presentation. Show all of your work. Evaluate each of the following limits, if they exist. If they do not, state such.

1. 
$$\lim_{x \rightarrow 3} \frac{x^2 - 12}{(x - 3)^2}$$

2. 
$$\lim_{x \rightarrow 0} \frac{(x + 2)^4 - 16}{x}$$