

Finding Limits

Example

Find the following limits.

$$(a) \lim_{x \rightarrow -1} \frac{x^2 - 9}{x - 3}$$

$$(b) \lim_{x \rightarrow 3} \frac{x^2 - 9}{x - 3}$$

$$(c) \lim_{x \rightarrow 0} \frac{|x|}{x}$$

$$(d) \lim_{x \rightarrow 1} \frac{x^2 + 1}{x - 1}$$