

201-103-RE - Supplement A: Limits

Evaluate the following limits.

$$(1) \lim_{x \rightarrow -4} \frac{1 - \sqrt{x+5}}{x+4}$$

$$(2) \lim_{x \rightarrow 1} \frac{\frac{1}{x+2} + \frac{1}{x-4}}{x-1}$$

$$(3) \lim_{x \rightarrow 3} \frac{4 - \sqrt{x+13}}{x-3}$$

$$(4) \lim_{x \rightarrow -2} \frac{\frac{1}{x+3} + \frac{1}{x+1}}{x+2}$$

$$(5) \lim_{x \rightarrow 4} \frac{x-4}{\sqrt{x+21} - 5}$$

$$(6) \lim_{x \rightarrow -1} \frac{3 - \frac{12}{x+5}}{x+1}$$

$$(7) \lim_{x \rightarrow -3} \frac{x+3}{3 - \sqrt{x+12}}$$

$$(8) \lim_{x \rightarrow -2} \frac{2 - \frac{8}{x+6}}{x+2}$$

$$(9) \lim_{x \rightarrow \infty} \frac{(2-x)(x+3)}{(3x-1)(x+1)}$$

$$(10) \lim_{x \rightarrow 1} \frac{x-1}{\frac{1}{4x} - \frac{1}{x+3}}$$

$$(11) \lim_{x \rightarrow -2} \frac{x+2}{\sqrt{x+3} - 1}$$

	2 (11)	3/61- (10)
8/1- (9)	7/1 (8)	9- (7)
3/4 (9)	10 (5)	2- (4)
8/1- (3)	8/2- (2)	1/2- (1)

ANSWERS: