

1.7 Selecting Procedures for Determining Limits

Calculus

Name: _____

CA #1

Evaluate each limit.

1. $\lim_{x \rightarrow 1} \frac{x-1}{\sqrt{x}-1}$

2. $\lim_{x \rightarrow 3} \sqrt{2x+4}$

3. $\lim_{x \rightarrow 0} \frac{x}{\frac{1}{x+3} - \frac{1}{3}}$

4. $\lim_{x \rightarrow 1} \frac{\sqrt{x+8}-3}{x-1}$

5. $\lim_{x \rightarrow -1} \frac{x+1}{x^2+2x+2}$

6. $\lim_{x \rightarrow 0} \frac{\frac{1}{x+2} - \frac{1}{2}}{x}$

7. $\lim_{x \rightarrow -1} \frac{x+1}{x^2-2x-3}$

8. $\lim_{x \rightarrow 13} \frac{\sqrt{x+12}-5}{x-13}$

9. $\lim_{x \rightarrow 0} \frac{\frac{1}{x-6} + \frac{1}{6}}{x}$

10. $\lim_{x \rightarrow 3} \frac{x^2-5x+6}{x-3}$

1. 2	2. $\sqrt{10}$	3. -9	4. $\frac{6}{1}$	5. 0	6. $-\frac{4}{1}$	7. $-\frac{4}{1}$	8. $\frac{10}{1}$	9. $-\frac{1}{36}$	10. 1
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