

1.7 Selecting Procedures for Determining Limits

Calculus

Name: _____

CA #2

Evaluate each limit.

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

2. $\lim_{x \rightarrow 9} \frac{\sqrt{x}-3}{x-9}$

3. $\lim_{x \rightarrow 0} \frac{x^2+3x+2}{x+1}$

4. $\lim_{x \rightarrow 2} \frac{x+2}{x^2-4}$

5. $\lim_{x \rightarrow 0} \frac{\frac{1}{x-7} + \frac{1}{7}}{x}$

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

7. $\lim_{x \rightarrow 3} \sqrt{2x-5}$

8. $\lim_{x \rightarrow 0} \frac{x}{\frac{1}{x-4} + \frac{1}{4}}$

9. $\lim_{x \rightarrow 0} \frac{\sqrt{x+10} - \sqrt{10}}{x}$

10. $\lim_{x \rightarrow 2} \frac{\sqrt{x+2}-2}{x-2}$

1. $\frac{1}{2}$	2. $\frac{6}{1}$	3. 2	4. DNE	5. $-\frac{49}{1}$	6. $\frac{4}{1}$	7. 1	8. -16	9. $\frac{2\sqrt{10}}{1}$	10. $\frac{4}{1}$
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