

Name _____

Evaluate the following limits (1 point each)

1. $\lim_{x \rightarrow 0} \frac{\sin x}{x}$

2. $\lim_{x \rightarrow +\infty} \left(1 + \frac{1}{x}\right)^x$

3. $\lim_{x \rightarrow +\infty} \cos\left(\frac{1}{x}\right)$

4. $\lim_{x \rightarrow +\infty} \frac{\ln x}{x}$

5. $\lim_{x \rightarrow +\infty} \frac{e^x}{x^{10}}$

6. $\lim_{x \rightarrow 0} \frac{3x - 2}{x - 1}$

7. $\lim_{x \rightarrow 6^+} \frac{1}{6 - x}$

8. $\lim_{x \rightarrow +\infty} \frac{3x - 2}{x - 1}$

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

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