TECHNICAL CALCULUS I

Fall 1994

Exam 2

Name _____

1. $\lim_{x \to 2} \dfrac{x^2 + 3x - 10}{x^2 - x - 2}$

2. $\lim_{x \to \infty} \dfrac{x - 2x^3}{1 + x^3}$

3. $y = \dfrac{x}{\sqrt{x^2 + 1}}\,,\ y'|_{x=1} = ?$

4. $y = \sqrt{1 - 8x}\,,\ y'' = ?$

5. The distance traveled by a car after the brakes are applied is given by $s(t) = 40t - 5t^2$ (in meters). How far does the car travel, after the brakes are applied, until it comes to a stop?