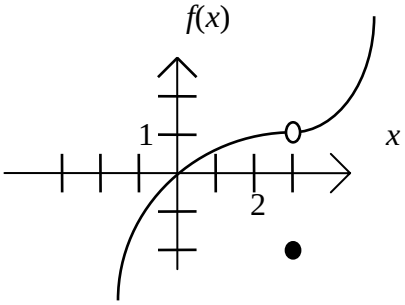
Math 141 Quiz 1 June 11, 1996 Name _____

(1 - 3) Evaluate the limits if they exist. If they do not exist write d.n.e. .

(5 pts.) 1.) $\lim_{x \to 3} 5$

(8 pts.) 2.) $\lim_{x \to 2} \frac{4 - x^2}{2 - x}$

(7 pts.) 3.) $\lim_{x \to 3} f(x)$



(5 pts.) 4.) State all values where $g(x)$ is discontinuous:

$$g(x) = \begin{cases} x^2 & if \quad x < -2 \\ -2x & if \quad -2 \le x < 1 \\ 2 & if \quad x \ge 1 \end{cases}$$