Name:

[1 pt]

**Problem 1**. Evaluate the limit

$$\lim_{x \to 3} \frac{x^2 - 9}{x^2 + x - 12} \ .$$

[5 pts]

**Problem 2.** Let 
$$f(x) = \begin{cases} \sqrt{4-x} & \text{if } x < 4, \\ x & \text{if } x > 4. \end{cases}$$
 Evaluate the limit  $\lim_{x \to 4} f(x)$ . [5 pts]