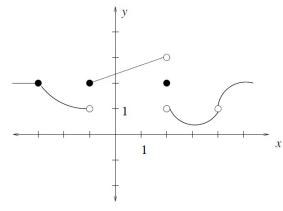
Quiz 2

Name: __

Quiz Score:

/10

1. The function f is depicted below. (4 pts)



- a) Is f continuous at x = -3? Explain.
- **b)** Is f continuous at x = 2? Explain.
- 2. Determine whether the following function is continuous at the given value (3 pts).

$$f(x) = \begin{cases} \frac{x^2 + x}{x^2 + 7x + 6} & \text{if } x \neq -1\\ 5 & \text{if } x = -1 \end{cases} \text{ at } a = -1$$

3. Use the Intermediate Value Theorem to explain why $f(x) = x^2 - 5$ has a root between 2 and 3.(3 pts).