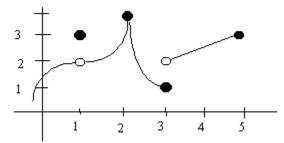
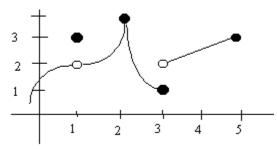
**1.** Below is a graph of the function f(x).



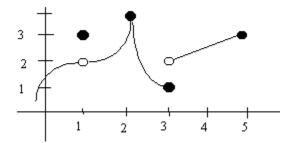
Using the definition of continuity, explain if f is continuous at x = 1.

**2.** Below is a graph of the function f(x).



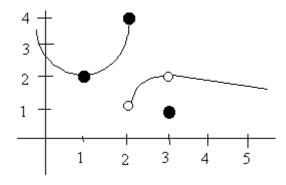
Using the definition of continuity, explain if f is continuous at x = 2.

**3.** Below is a graph of the function f(x).



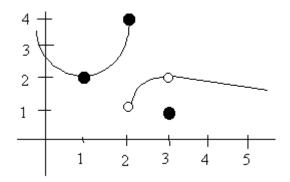
Using the definition of continuity, explain if f is continuous at x = 3.

**4.** Below is a graph of the function g(x).



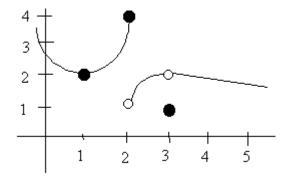
Using the definition of continuity, explain if g is continuous at x = 1.

**5.** Below is a graph of the function g(x).



Using the definition of continuity, explain if g is continuous at x = 2.

**6.** Below is a graph of the function g(x).



Using the definition of continuity, explain if g is continuous at x = 3.

**7.** Let *f* be the function defined by

$$f(x) = \begin{cases} \frac{1}{2}x + 1 & x \le 2\\ 3 - x & x > 2 \end{cases}$$

Is f continuous at x = 2? Use the definition of continuity to explain your answer.

**8.** Let *g* be the function defined by

$$g(x) = \begin{cases} -2x + 3 & x < 1 \\ 5 & x = 1 \\ x^2 & x > 1 \end{cases}$$

Is g continuous at x = 1? Use the definition of continuity to explain your answer.