Quiz: HSF.IF.A.3

1. Look at the sequence.

Which functions define this sequence explicitly?

Select all that apply.

$$A. \quad f(n) = \frac{n(n+1)}{2}$$

B.
$$f(n) = 0.5(n^2 + n)$$

C.
$$f(n) = \frac{n^2}{2} + \frac{n}{2}$$

D.
$$f(n) = n + f(n-1), f(1) = 1, n \ge 2$$

E.
$$f(n) = 2n - 1$$

2. Look at the sequence.

What function defines this sequence explicitly in terms of *n*?

Write the answer in the space provided.

3. Look at the sequence.

Complete the recursive definition of the sequence.

$$f(n) = \underline{\qquad} f(n-1), f(1) = \underline{\qquad}, n \ge \underline{\qquad}$$

Write the answers in the spaces provided.