Exercise 3a:

1. Find f (2), f (3), f (4), and f (5) if f is defined recursively by f(0) = f(1) = 1 and for n = 1,2,...

   a) $f(n+1)=f(n)-f(n-1)$.

   b) $f(n+1)=f(n)f(n-1)$.

2. Give a recursive definition of the sequence {an}, n = 1,2,3,... if

   a) $a_n = 4n-2$.

   b) $a_n = 1+(-1)^n$.