Functions:

1. If f(x)= x²-x, find f(x+1)-f(x)
2. If f(x)= x²-3x, find f(1)-f(-1)
3. f:A->B, f(x)=2x-3 and R_f= {-3,1,0} . Find the Domain A of function f.
4. f(x)=1-4x and x $\in$ { $-\frac{1}{2}$, 0,2} , Find the Range of the function f.
5. Determine the type of function:
    a. f(x)= |x+1|
    b. f(x) = 3
    c. f(-x) =-x
    d. f(y) = [y]
    e. f(x) = π
    f. f(2x) =2x
6. Find the domain of the following functions:
    a. f(x) = $\frac{x^2-36}{x-6}$
    b. f(x) = $\frac{3-x}{x-3}$
    c. f(x) = $\frac{x^2-2x+9}{x^2-7x+10}$
7. If the domain of f(x) = $\frac{x+3}{x+4}$ is {0,2,4,6} find R_f.
8. If f(x) = x²+4x+5 and g(x) = 2x+1 find the value of f(1)-2.g(2)