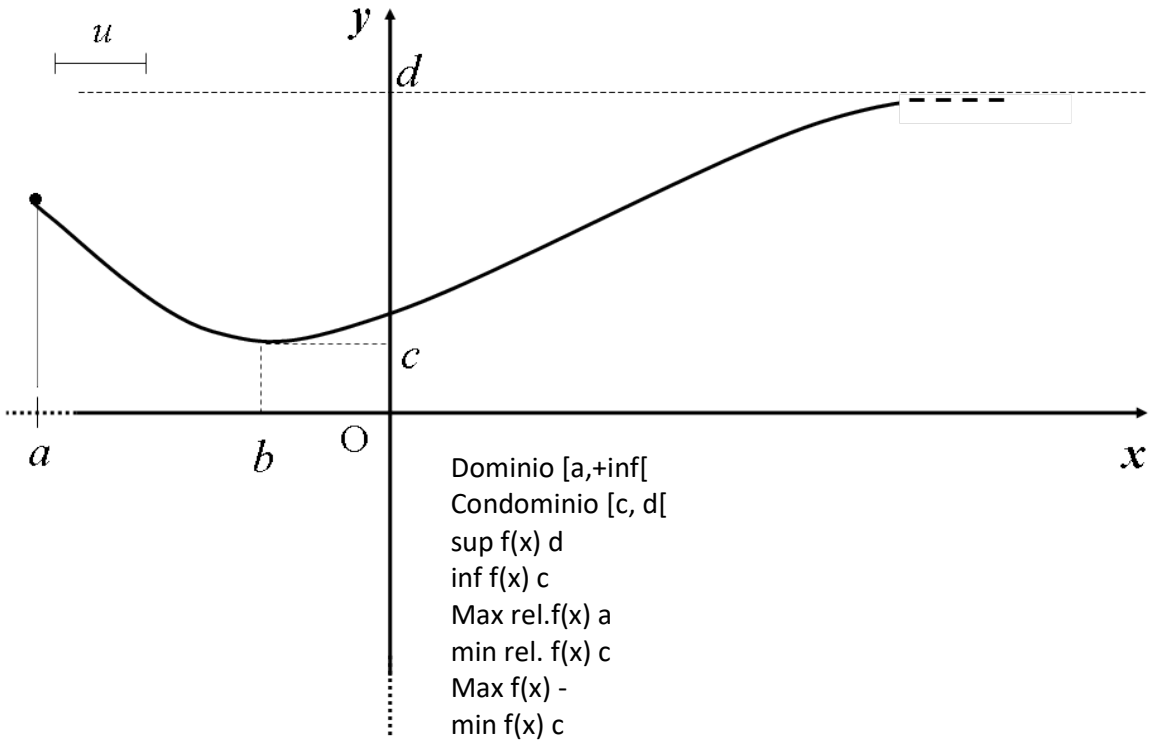
Esercizi sui interpretazione grafico funzione

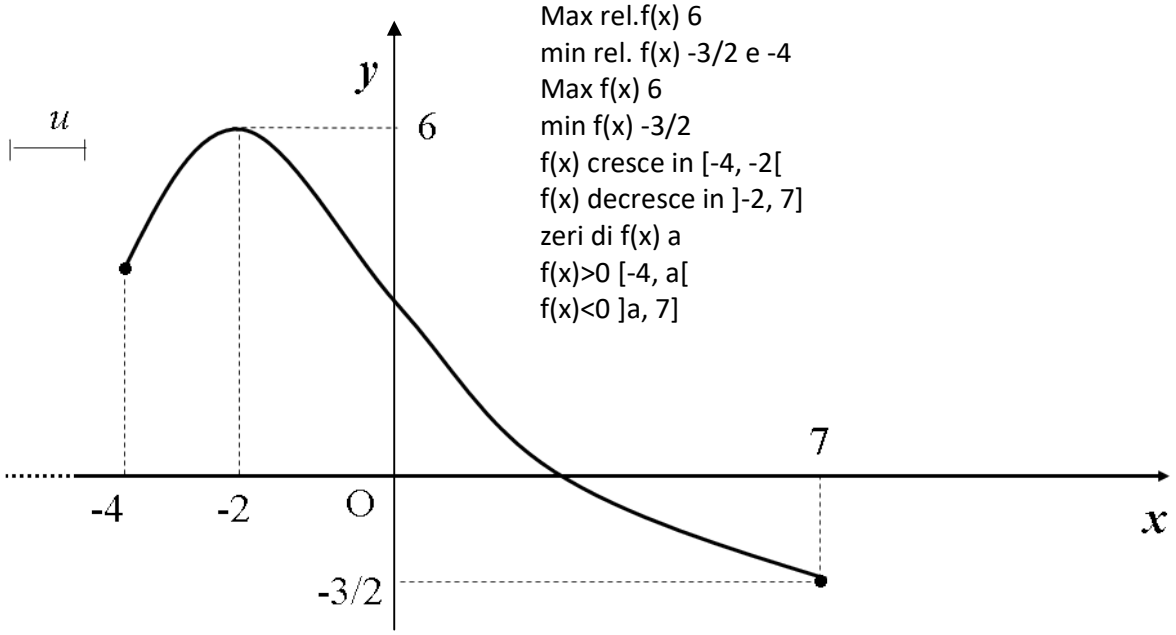
Dal grafico della funzione in figura, determinare:
dominio di f, codominio di f
estremo superiore ed estremo inferiore
massimi e minimi relativi e gli eventuali massimo e minimo assoluto
gli intervalli in cui f cresce e decresce, gli zeri di f, gli intervalli in cui f > 0 ed f < 0

1



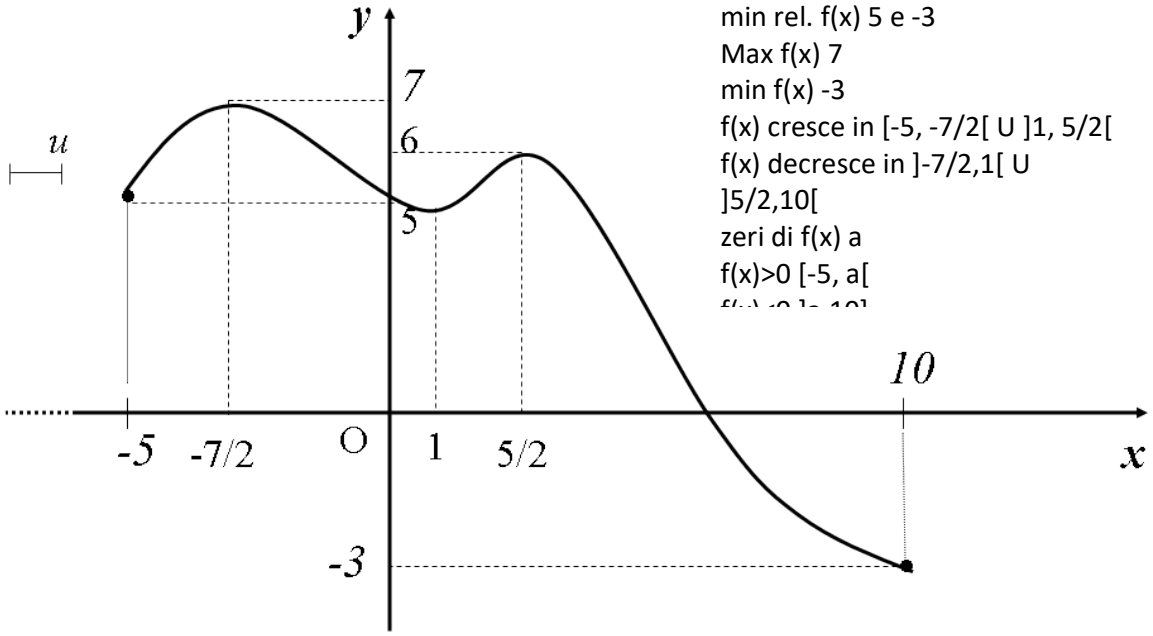
Dominio [a,+inf[
Condominio [c, d[
sup f(x) d
inf f(x) c
Max rel.f(x) a
min rel. f(x) c
Max f(x) -
min f(x) c
f(x) cresce in]b,+inf[
f(x) decresce in [a,b[
zeri di f(x) -
f(x)>0 [a, +inf[
f(x)<0 -

2



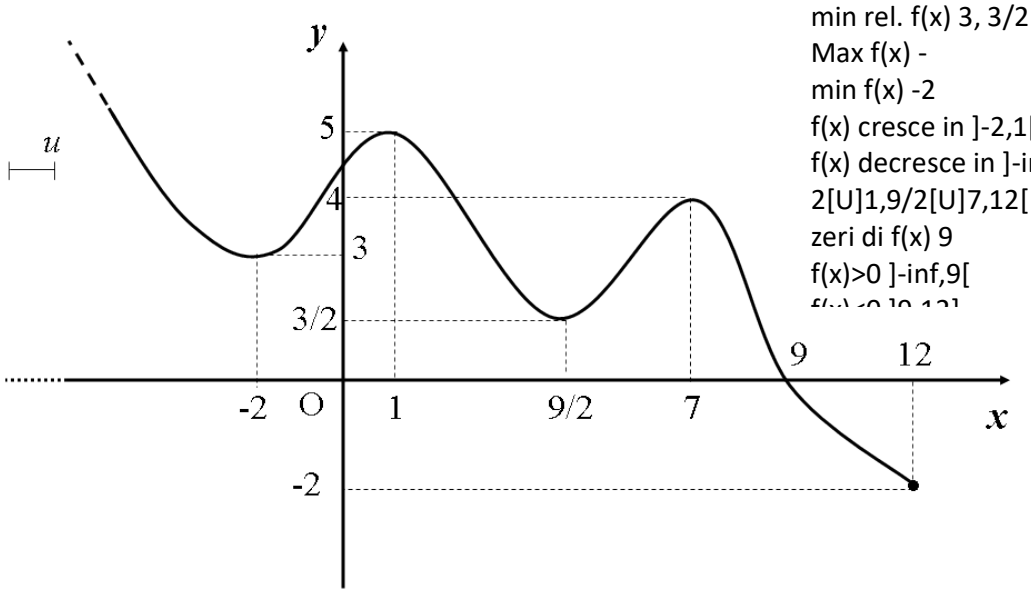
Dominio [-4,7]
Condominio [-3/2, 6]
sup f(x) 6
inf f(x) -3/2
Max rel.f(x) 6
min rel. f(x) -3/2 e -4
Max f(x) 6
min f(x) -3/2
f(x) cresce in [-4, -2[
f(x) decresce in]-2, 7]
zeri di f(x) a
f(x)>0 [-4, a[
f(x)<0]a, 7]

3



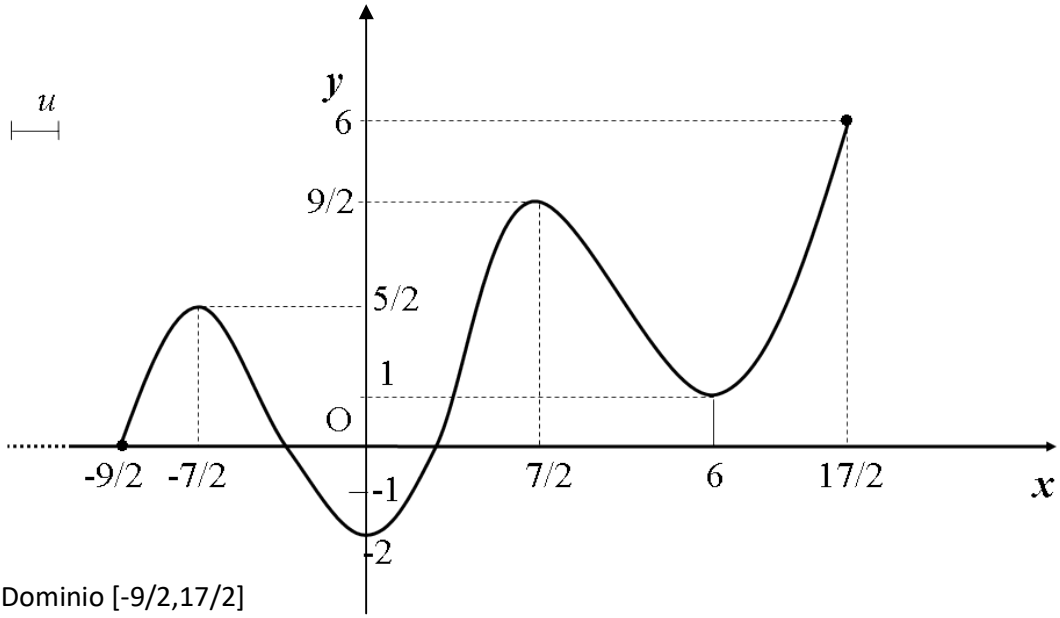
Dominio [-5, 10]
Codominio [-3, 7]
sup f(x) 7
inf f(x) -3
Max rel.f(x) 7 e 6
min rel. f(x) 5 e -3
Max f(x) 7
min f(x) -3
f(x) cresce in [-5, -7/2[U]1, 5/2[
f(x) decresce in]-7/2,1[U]5/2,10[
zeri di f(x) a
f(x)>0 [-5, a[

4



Dominio]-inf, 12]
Codominio [-2, +inf[
sup f(x) +inf
inf f(x) -2
Max rel.f(x) 5, 4
min rel. f(x) 3, 3/2 -2
Max f(x) -
min f(x) -2
f(x) cresce in]-2,1[U]9/2,7[
f(x) decresce in]-inf,-2[U]1,9/2[U]7,12[
zeri di f(x) 9
f(x)>0]-inf,9[
f(x) <0]9,12[

5



Dominio [-9/2,17/2]
Codominio [-2,6]
sup f(x) 6
inf f(x) -2
Max rel.f(x) 5/2, 9/2, 6
min rel. f(x) 0, -2, 1
Max f(x) 6
min f(x) -2
f(x) cresce in [-9/2,-7/2[U]0,7/2[U]6,17/2[
f(x) decresce in]-7/2,0[U]7/2, 6 [
zeri di f(x) -9/2, a, b
f(x)>0]-9/2,a[U]b,17/2]
f(x) <0]a, b[