



Istituzioni di Matematica – dott. francesco giannino

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

Codominio

$\sup f(x)$

$\inf f(x)$

Max rel. $f(x)$

min rel. $f(x)$

Max $f(x)$

min $f(x)$

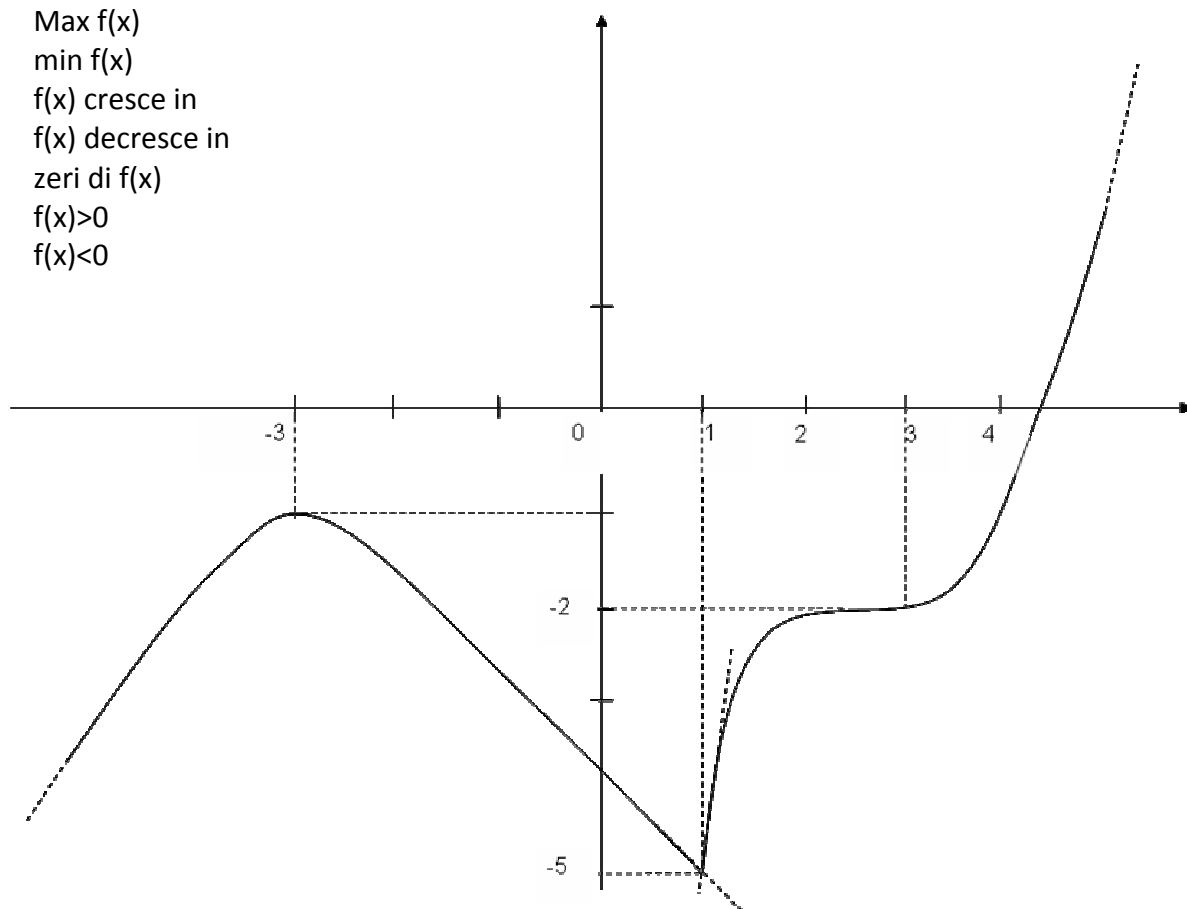
$f(x)$ cresce in

$f(x)$ decresce in

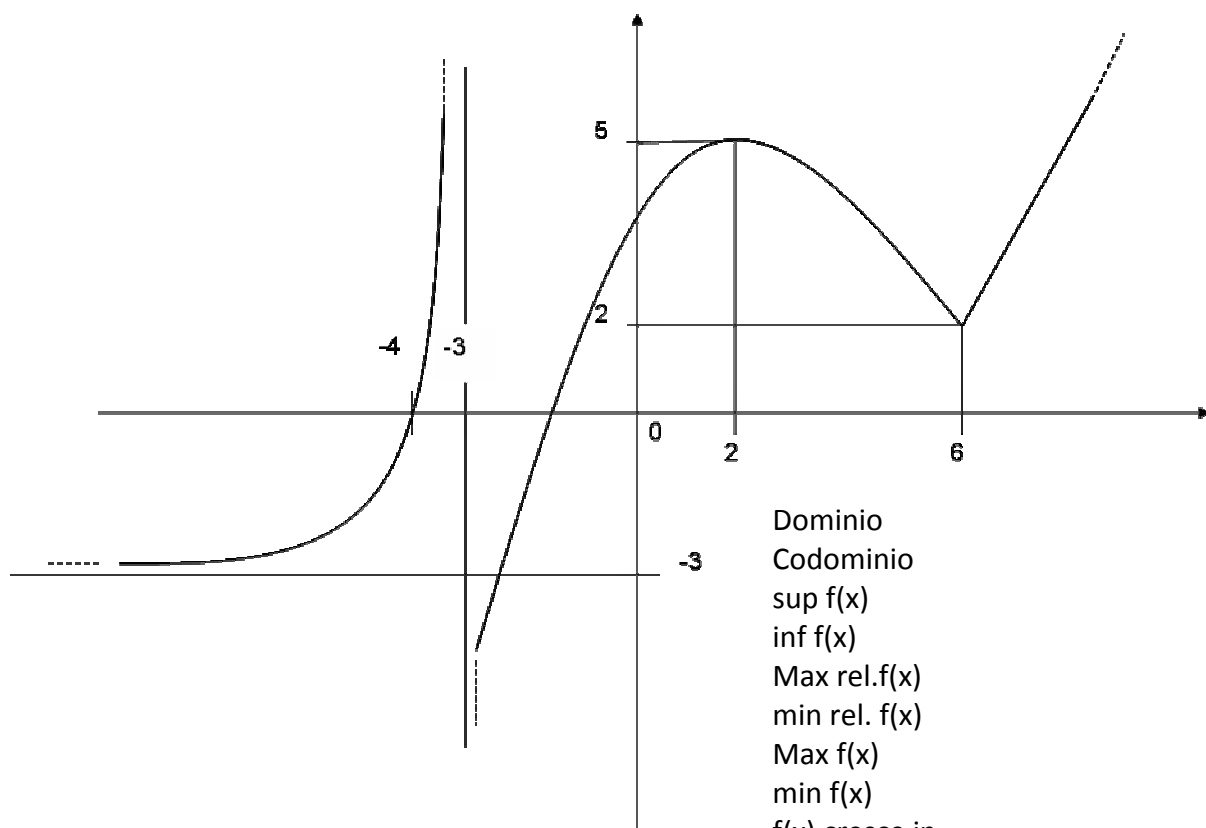
zeri di $f(x)$

$f(x) > 0$

$f(x) < 0$



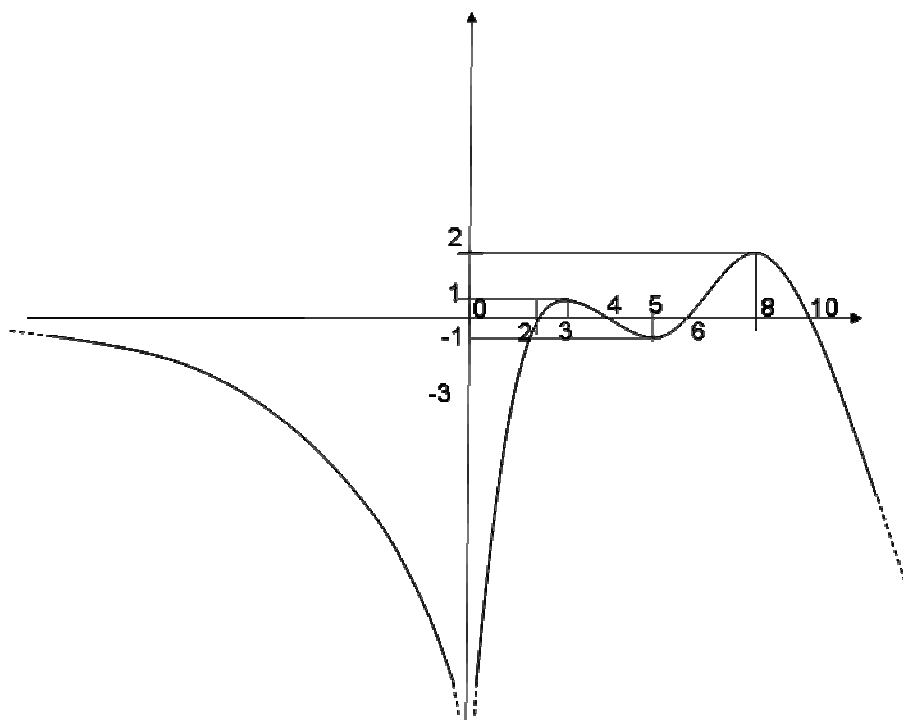
2



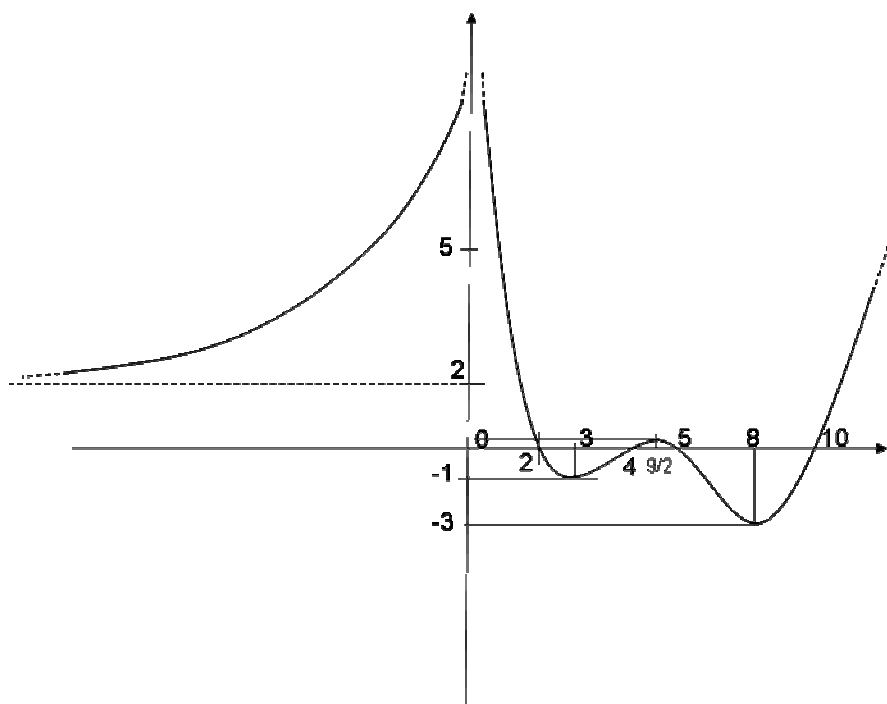
Dominio
 Codominio
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 $\inf f(x)$
 Max rel. $f(x)$
 min rel. $f(x)$
 Max $f(x)$
 min $f(x)$
 $f(x)$ cresce in
 $f(x)$ decresce in
 zeri di $f(x)$
 $f(x) > 0$
 $f(x) < 0$

3

Dominio
 Codominio
 $\sup f(x)$
 $\inf f(x)$
 Max rel. $f(x)$
 min rel. $f(x)$
 Max $f(x)$
 min $f(x)$
 $f(x)$ cresce in
 $f(x)$ decresce in
 zeri di $f(x)$
 $f(x) > 0$
 $f(x) < 0$

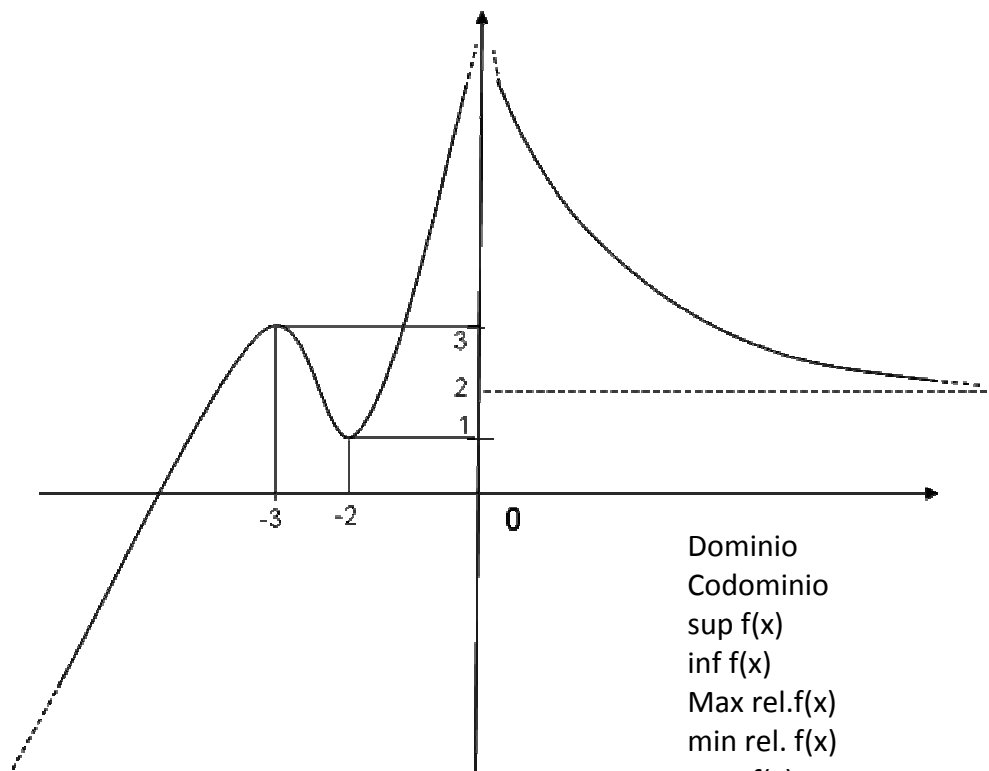


4



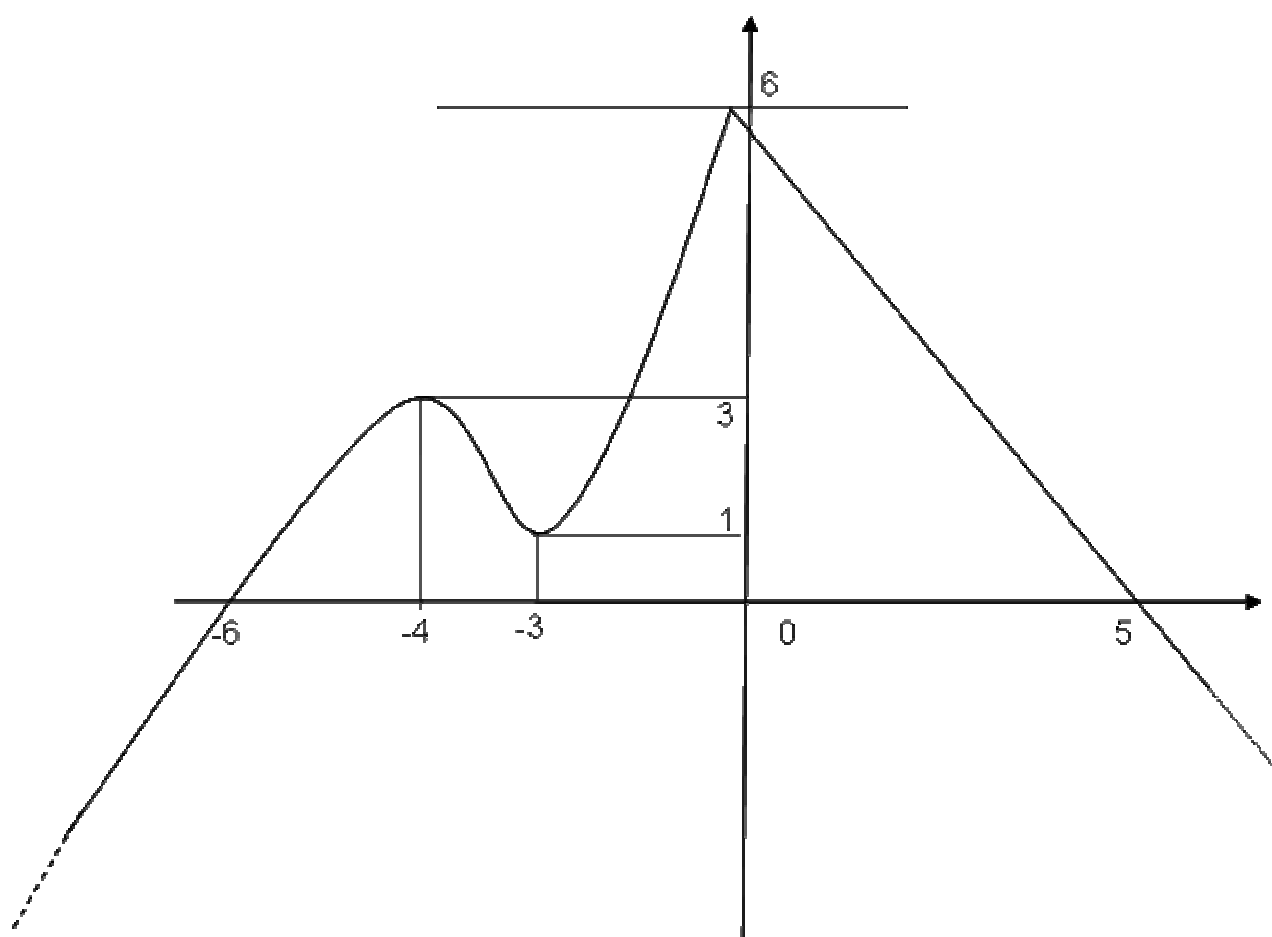
Dominio
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 $f(x)$ decresce in
 zeri di $f(x)$
 $f(x) > 0$
 $f(x) < 0$

5



Dominio
 Codominio
 $\sup f(x)$
 $\inf f(x)$
 $\text{Max rel. } f(x)$
 $\text{min rel. } f(x)$
 $\text{Max } f(x)$
 $\text{min } f(x)$
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 $f(x)$ decresce in
 zeri di $f(x)$
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6



Dominio

Codominio

$\sup f(x)$

$\inf f(x)$

Max rel. $f(x)$

min rel. $f(x)$

Max $f(x)$

min $f(x)$

$f(x)$ cresce in

$f(x)$ decresce in

zeri di $f(x)$

$f(x) > 0$

$f(x) < 0$