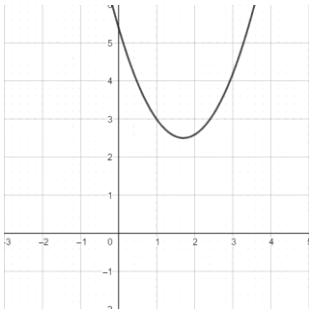
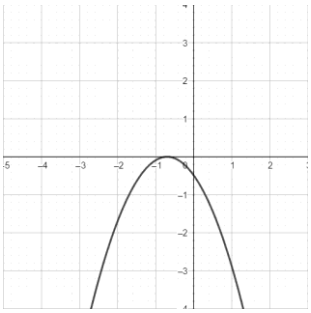
**Ispit: Kvadratna funkcija A grupa Učenik: _____ Bodovi / ocjene: _____**

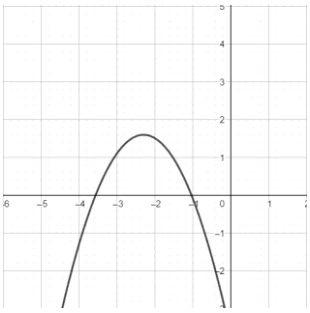
1. Zaokružiti slovo ispod parabole za koju vrijedi da je a>0 i D>0. MK /1



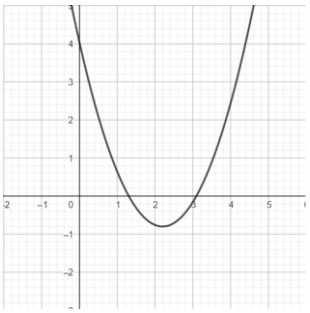
a)



b)

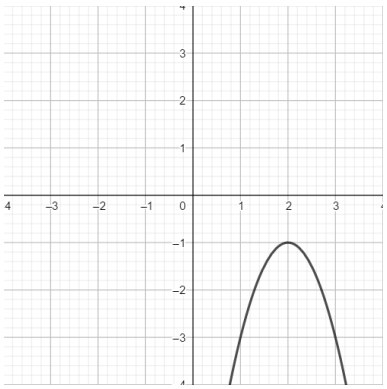


c)



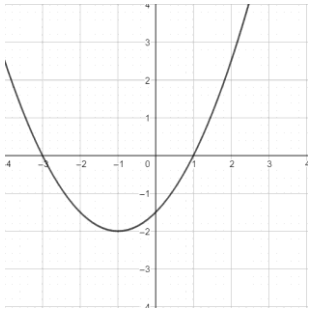
d)

2. Kojoj od navedenih funkcija odgovara grafički prikaz na slici? MK /1

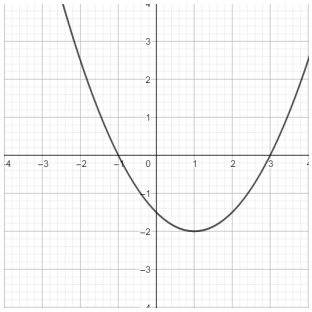


a) $f(x)=-2(x-2)^2-1$ b) $f(x)=2(x-2)^2-1$ c) $f(x)=2(x-2)^2+1$ d) $f(x)=-2(x+2)^2-1$

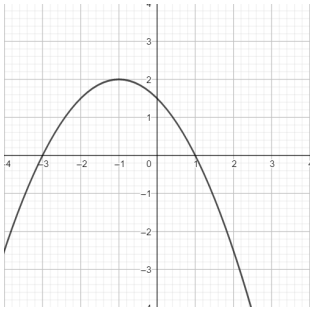
3. Zaokružiti slovo ispod parabole $y=\frac{1}{2}(x-3)(x+1)$. MK /1



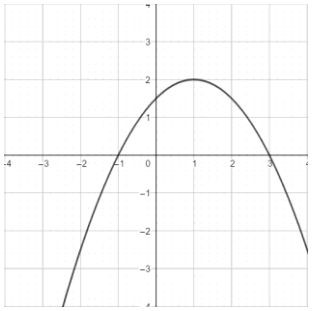
a)



b)

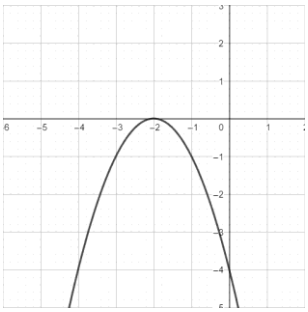


c)



d)

4. Koja od izjava vrijedi za kvadratnu funkciju prikazanu na slici? MK /1

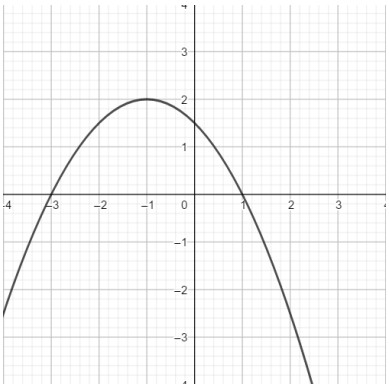
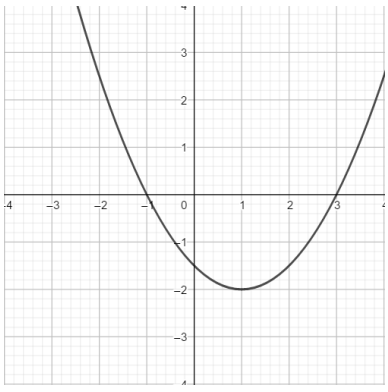


a) Za -2 postiže minimum 0.

b) Za -2 postiže maksimum 0.

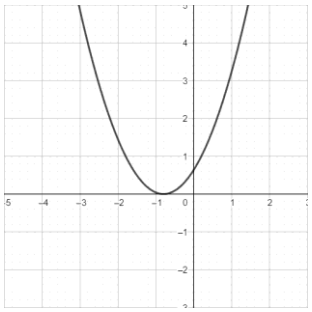
c) Za 0 postiže maksimum -2.

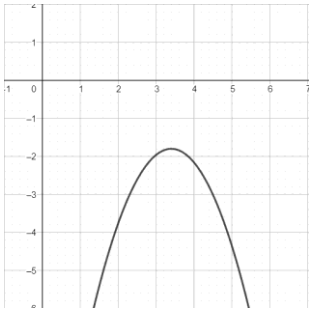
d) Za 0 postiže minimum -4.

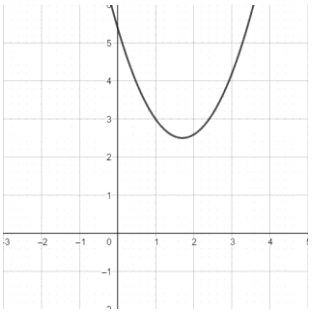
| | |
|---|---|
| 5. Koliko iznosi vrijednost koeficijenta a u funkciji $f(x) = ax^2 + 4x + 2$ ako je $f(-1) = -5$ ?<br><br>Rješenje: _____ | MK /1 |
| 6. Odrediti os simetrije parabole kojoj su nul-točke brojevi -5 i 7.<br><br>Rješenje: _____ | MK /1 |
| 7. Na kojem intervalu funkcija prikazana na slici pada?<br>  <br>Rješenje: _____ | MK /1 |
| 8. Odrediti domenu i sliku funkcije čiji graf je prikazan na slici.<br>  <br>Rješenje: _____ | MK /1 |

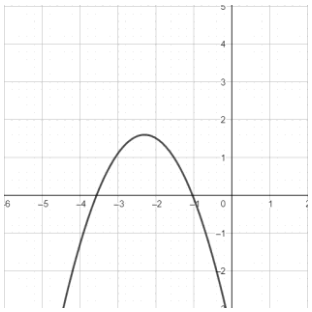
**Ispit: Kvadratna funkcija B grupa** **Učenik: _____** **Bodovi / ocjene: _____**

1. Zaokružiti slovo ispod parabole za koju vrijedi da je a<0 i D<0. MK /1

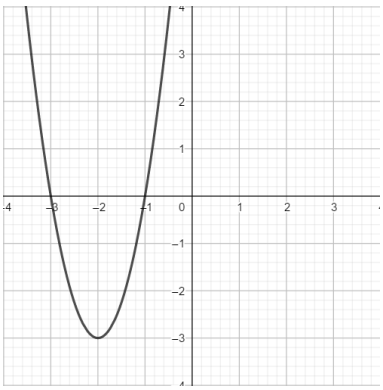

a)


b)


c)

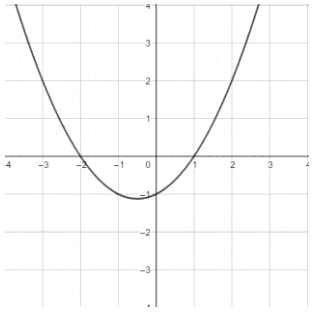

d)

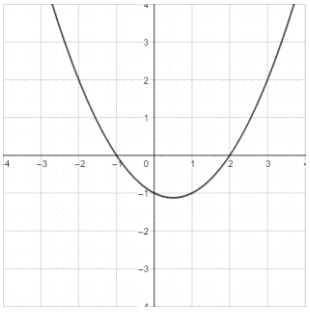
2. Kojoj od navedenih funkcija odgovara grafički prikaz na slici? MK /1

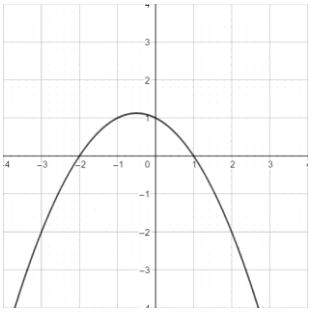


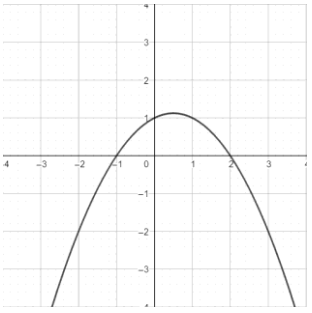
a) $f(x)=-3(x+2)^2+3$ b) $f(x)=3(x-2)^2-3$ c) $f(x)=3(x+2)^2-3$ d) $f(x)=-3(x+2)^2-3$

3. Zaokružiti slovo ispod parabole $y=-\frac{1}{2}(x-2)(x+1)$. MK /1

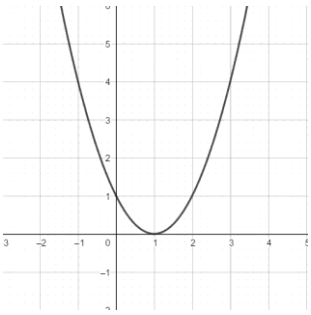

a)


b)


c)


d)

4. Koja od izjava vrijedi za kvadratnu funkciju prikazanu na slici? MK /1

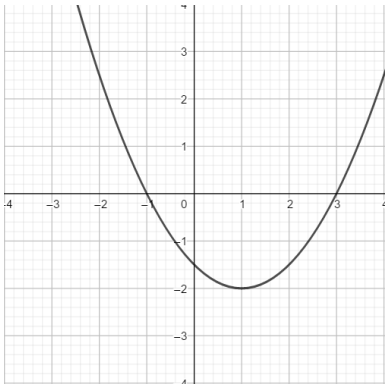
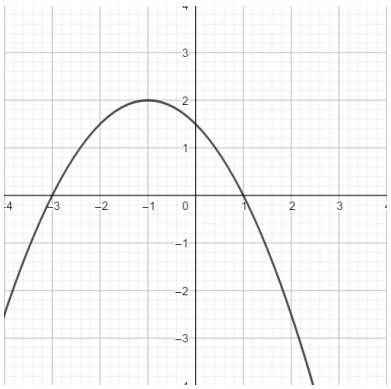


a) Za 0 postiže minimum 1.

b) Za 1 postiže maksimum 0.

c) Za 1 postiže minimum 0.

d) Za 0 postiže maksimum 1.

| | |
|---|---|
| 5. Koliko iznosi vrijednost koeficijenta b u funkciji $f(x) = -3x^2 + bx + 2$ ako je $f(2) = -2$?<br><br>Rješenje: _____ | MK<br>/1 |
| 6. Odrediti os simetrije parabole kojoj su nul-točke brojevi -8 i 2.<br><br>Rješenje: _____ | MK<br>/1 |
| 7. Na kojem intervalu funkcija prikazana na slici raste?<br>  <br>Rješenje: _____ | MK<br>/1 |
| 8. Odrediti domenu i sliku funkcije čiji graf je prikazan na slici.<br>  <br>Rješenje: _____ | MK<br>/1 |