

# RJEŠENJA KVADRATNE JEDNADŽBE

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Broj rješenja kvadratne jednadžbe ovisi o diskriminanti.

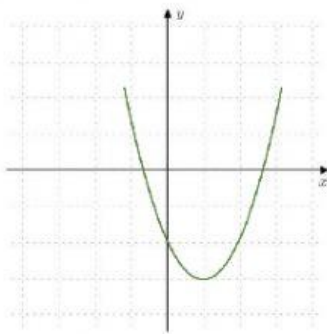
$$D = b^2 - 4ac$$

$D > 0 \Rightarrow$  jednadžba ima dva (različita) realna rješenja

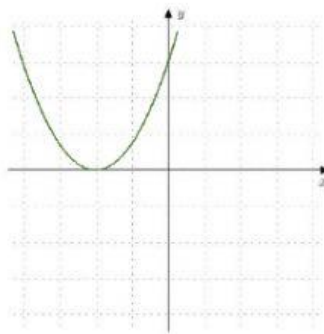
$D = 0 \Rightarrow$  jednadžba ima jedno (dvostruko) realno rješenje

$D < 0 \Rightarrow$  jednadžba nema realnih rješenja; ona su konjugirano – kompleksna

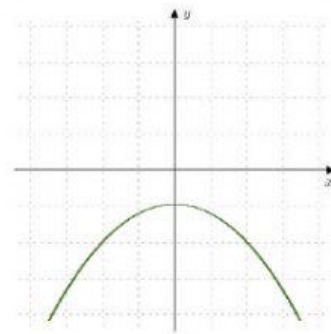
| KVADRATNA JEDNADŽBA  | BROJ REALNIH RJEŠENJA |   |   | SKUP KOJEMU PRIPADAJU RJEŠENJA |   |   |
|----------------------|-----------------------|---|---|--------------------------------|---|---|
| $x^2 + 6x + 4 = 0$   | 0                     | 1 | 2 | Q                              | I | C |
| $9k^2 + 11k + 4 = 0$ | 0                     | 1 | 2 | Q                              | I | C |
| $4r^2 + 4r + 1 = 0$  | 0                     | 1 | 2 | Q                              | I | C |
| $9x^2 + 5 = 0$       | 0                     | 1 | 2 | Q                              | I | C |
| $5t - 4t^2 = 2$      | 0                     | 1 | 2 | Q                              | I | C |
| $3y^2 = 4y$          | 0                     | 1 | 2 | Q                              | I | C |



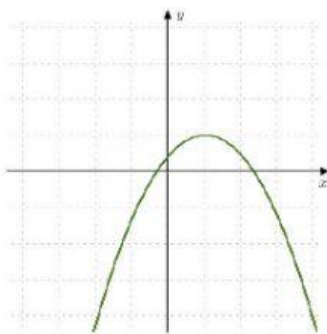
$D < 0$   $D = 0$   $D > 0$



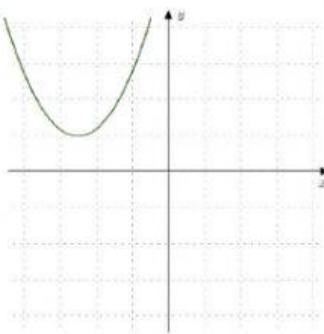
$D < 0$   $D = 0$   $D > 0$



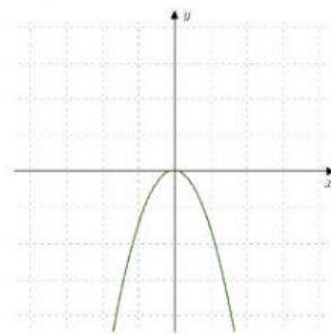
$D < 0$   $D = 0$   $D > 0$



$D < 0$   $D = 0$   $D > 0$



$D < 0$   $D = 0$   $D > 0$



$D < 0$   $D = 0$   $D > 0$