

KVADRATICKÉ ROVNICE I.

1) $2x^2 + 9x + 4 = 0$

$a = 2$
 $b = 9$
 $c = 4$

$D = b^2 - 4ac = 9^2 - 4 \cdot 2 \cdot 4 = 81 - 32 = 49$

↓
↓
dvě různé koř.

2) $x^2 - 8x + 16 = 0$

$(x - 4)(x - 4) = 0$

\downarrow \downarrow
 $x_1 = 4$ $x_2 = 4$

3) $x^2 - 2x = 0$

$x(x - 2) = 0$

\downarrow \downarrow
 $x_1 = 0$ $x_2 = 2$

4) $x^2 = 16$

$x^2 - 16 = 0$

$a = 1$

$b = 0$

$c = -16$

$D = 0^2 - 4 \cdot 1 \cdot (-16) = 64$

5) $x^2 - 8x + 16 = 0$

$D = 0$

6) $x^2 - 10x - 24 = 0$

... úplně tvar

$x^2 - 5x = 0$

... bez abs. členu

$4x^2 = 3$

... ryze kvadratická

7) $x^2 - 10x - 24 = 0$

$(x - 12)(x + 2) = 0$

\downarrow
 $x_1 = 12$

\downarrow
 $x_2 = -2$ AND