

# Kvadrat zbroja i razlike

Ivica Đuzel, prof.  
SMŠ Žepče

December 5, 2018

- 1 Kvadrat zbroja i razlika
- 2 Kvadriraj prema formulama
- 3 Rastavi na faktore prema formulama
- 4 Pronađi netočne odgovore

## Kvadrat zbroja i razlika

Kvadriraj prema formulama

Rastavi na faktore prema formulama

Pronađi netočne odgovore

$$(I \pm II)^2 = I^2 \pm 2 \cdot I \cdot II + II^2$$

$$(I \pm II)^2 = I^2 \pm 2 \cdot I \cdot II + II^2$$

$$(2a + 3b)^2$$

$$(I \pm II)^2 = I^2 \pm 2 \cdot I \cdot II + II^2$$

$$(2a + 3b)^2 = (2a)^2 + 2 \cdot (2a) \cdot (3b) + (3b)^2$$

$$(I \pm II)^2 = I^2 \pm 2 \cdot I \cdot II + II^2$$

$$\begin{aligned}(2a + 3b)^2 &= (2a)^2 + 2 \cdot (2a) \cdot (3b) + (3b)^2 \\ &= 4a^2 + 12ab + 9b^2\end{aligned}$$

$$(I \pm II)^2 = I^2 \pm 2 \cdot I \cdot II + II^2$$

$$\begin{aligned}(2a + 3b)^2 &= (2a)^2 + 2 \cdot (2a) \cdot (3b) + (3b)^2 \\ &= 4a^2 + 12ab + 9b^2\end{aligned}$$

$$16x^2 - 40xy + 25y^2$$

$$(I \pm II)^2 = I^2 \pm 2 \cdot I \cdot II + II^2$$

$$\begin{aligned}(2a + 3b)^2 &= (2a)^2 + 2 \cdot (2a) \cdot (3b) + (3b)^2 \\ &= 4a^2 + 12ab + 9b^2\end{aligned}$$

$$16x^2 - 40xy + 25y^2 = (4x)^2 - 2 \cdot (4x) \cdot (5y) + (5y)^2$$



$$(I \pm II)^2 = I^2 \pm 2 \cdot I \cdot II + II^2$$

$$\begin{aligned}(2a + 3b)^2 &= (2a)^2 + 2 \cdot (2a) \cdot (3b) + (3b)^2 \\ &= 4a^2 + 12ab + 9b^2\end{aligned}$$

$$\begin{aligned}16x^2 - 40xy + 25y^2 &= (4x)^2 - 2 \cdot (4x) \cdot (5y) + (5y)^2 \\ &= (4x - 5y)^2\end{aligned}$$

# Kvadriraj prema formuli

# Kvadriraj prema formuli

$$(2 + x)^2$$

$$(3 - x)^2$$

$$(12 + a)^2$$

$$(a - 5)^2$$

$$(3a + b)^2$$

$$(2a - b)^2$$

$$(4a + 5b)^2$$

$$(4a - 3b)^2$$

$$(a + 7b)^2$$

$$(8a - 10b)^2$$

## Kvadriraj prema formuli

$$(2 + x)^2 = 4 + 4x + x^2$$

$$(3 - x)^2$$

$$(12 + a)^2$$

$$(a - 5)^2$$

$$(3a + b)^2$$

$$(2a - b)^2$$

$$(4a + 5b)^2$$

$$(4a - 3b)^2$$

$$(a + 7b)^2$$

$$(8a - 10b)^2$$

## Kvadriraj prema formuli

$$(2 + x)^2 = 4 + 4x + x^2$$

$$(3 - x)^2 = 9 - 6x + x^2$$

$$(12 + a)^2$$

$$(a - 5)^2$$

$$(3a + b)^2$$

$$(2a - b)^2$$

$$(4a + 5b)^2$$

$$(4a - 3b)^2$$

$$(a + 7b)^2$$

$$(8a - 10b)^2$$

## Kvadriraj prema formuli

$$(2 + x)^2 = 4 + 4x + x^2$$

$$(3 - x)^2 = 9 - 6x + x^2$$

$$(12 + a)^2 = 144 + 24a + a^2$$

$$(a - 5)^2$$

$$(3a + b)^2$$

$$(2a - b)^2$$

$$(4a + 5b)^2$$

$$(4a - 3b)^2$$

$$(a + 7b)^2$$

$$(8a - 10b)^2$$

## Kvadriraj prema formuli

$$(2 + x)^2 = 4 + 4x + x^2$$

$$(3 - x)^2 = 9 - 6x + x^2$$

$$(12 + a)^2 = 144 + 24a + a^2$$

$$(a - 5)^2 = a^2 - 10a + 25$$

$$(3a + b)^2$$

$$(2a - b)^2$$

$$(4a + 5b)^2$$

$$(4a - 3b)^2$$

$$(a + 7b)^2$$

$$(8a - 10b)^2$$

## Kvadriraj prema formuli

$$(2 + x)^2 = 4 + 4x + x^2$$

$$(3 - x)^2 = 9 - 6x + x^2$$

$$(12 + a)^2 = 144 + 24a + a^2$$

$$(a - 5)^2 = a^2 - 10a + 25$$

$$(3a + b)^2 = 9a^2 + 6ab + b^2$$

$$(2a - b)^2$$

$$(4a + 5b)^2$$

$$(4a - 3b)^2$$

$$(a + 7b)^2$$

$$(8a - 10b)^2$$



## Kvadriraj prema formuli

$$(2 + x)^2 = 4 + 4x + x^2$$

$$(3 - x)^2 = 9 - 6x + x^2$$

$$(12 + a)^2 = 144 + 24a + a^2$$

$$(a - 5)^2 = a^2 - 10a + 25$$

$$(3a + b)^2 = 9a^2 + 6ab + b^2$$

$$(2a - b)^2 = 4a^2 - 4ab + b^2$$

$$(4a + 5b)^2$$

$$(4a - 3b)^2$$

$$(a + 7b)^2$$

$$(8a - 10b)^2$$

## Kvadriraj prema formuli

$$(2 + x)^2 = 4 + 4x + x^2$$

$$(3 - x)^2 = 9 - 6x + x^2$$

$$(12 + a)^2 = 144 + 24a + a^2$$

$$(a - 5)^2 = a^2 - 10a + 25$$

$$(3a + b)^2 = 9a^2 + 6ab + b^2$$

$$(2a - b)^2 = 4a^2 - 4ab + b^2$$

$$(4a + 5b)^2 = 16a^2 + 40ab + 25b^2$$

$$(4a - 3b)^2$$

$$(a + 7b)^2$$

$$(8a - 10b)^2$$

## Kvadriraj prema formuli

$$(2 + x)^2 = 4 + 4x + x^2$$

$$(3 - x)^2 = 9 - 6x + x^2$$

$$(12 + a)^2 = 144 + 24a + a^2$$

$$(a - 5)^2 = a^2 - 10a + 25$$

$$(3a + b)^2 = 9a^2 + 6ab + b^2$$

$$(2a - b)^2 = 4a^2 - 4ab + b^2$$

$$(4a + 5b)^2 = 16a^2 + 40ab + 25b^2$$

$$(4a - 3b)^2 = 16a^2 - 24ab + 9b^2$$

$$(a + 7b)^2$$

$$(8a - 10b)^2$$

## Kvadriraj prema formuli

$$(2 + x)^2 = 4 + 4x + x^2$$

$$(3 - x)^2 = 9 - 6x + x^2$$

$$(12 + a)^2 = 144 + 24a + a^2$$

$$(a - 5)^2 = a^2 - 10a + 25$$

$$(3a + b)^2 = 9a^2 + 6ab + b^2$$

$$(2a - b)^2 = 4a^2 - 4ab + b^2$$

$$(4a + 5b)^2 = 16a^2 + 40ab + 25b^2$$

$$(4a - 3b)^2 = 16a^2 - 24ab + 9b^2$$

$$(a + 7b)^2 = a^2 + 14ab + 49b^2$$

$$(8a - 10b)^2$$

## Kvadriraj prema formuli

$$(2 + x)^2 = 4 + 4x + x^2$$

$$(3 - x)^2 = 9 - 6x + x^2$$

$$(12 + a)^2 = 144 + 24a + a^2$$

$$(a - 5)^2 = a^2 - 10a + 25$$

$$(3a + b)^2 = 9a^2 + 6ab + b^2$$

$$(2a - b)^2 = 4a^2 - 4ab + b^2$$

$$(4a + 5b)^2 = 16a^2 + 40ab + 25b^2$$

$$(4a - 3b)^2 = 16a^2 - 24ab + 9b^2$$

$$(a + 7b)^2 = a^2 + 14ab + 49b^2$$

$$(8a - 10b)^2 = 64a^2 - 160ab + 100b^2$$

# Faktoriziraj prema formuli za kvadrat binoma

## Faktoriziraj prema formuli za kvadrat binoma

$$a^2 + 4a + 4$$

$$x^2 - 6x + 9$$

$$4a^2 + 4a + 1$$

$$25x^2 - 10x + 1$$

$$4b^2 - 12b + 9$$

$$9a^2 + 30a + 25$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^2b^2 + 8abc^2 + 16c^4$$

## Faktoriziraj prema formuli za kvadrat binoma

$$a^2 + 4a + 4 = (a + 2)^2$$

$$x^2 - 6x + 9$$

$$4a^2 + 4a + 1$$

$$25x^2 - 10x + 1$$

$$4b^2 - 12b + 9$$

$$9a^2 + 30a + 25$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^2b^2 + 8abc^2 + 16c^4$$



## Faktoriziraj prema formuli za kvadrat binoma

$$a^2 + 4a + 4 = (a + 2)^2$$

$$x^2 - 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1$$

$$25x^2 - 10x + 1$$

$$4b^2 - 12b + 9$$

$$9a^2 + 30a + 25$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^2 b^2 + 8abc^2 + 16c^4$$

## Faktoriziraj prema formuli za kvadrat binoma

$$a^2 + 4a + 4 = (a + 2)^2$$

$$x^2 - 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1$$

$$4b^2 - 12b + 9$$

$$9a^2 + 30a + 25$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^2 b^2 + 8abc^2 + 16c^4$$

## Faktoriziraj prema formuli za kvadrat binoma

$$a^2 + 4a + 4 = (a + 2)^2$$

$$x^2 - 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 12b + 9$$

$$9a^2 + 30a + 25$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^2 b^2 + 8abc^2 + 16c^4$$

## Faktoriziraj prema formuli za kvadrat binoma

$$a^2 + 4a + 4 = (a + 2)^2$$

$$x^2 - 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 12b + 9 = (2b - 3)^2$$

$$9a^2 + 30a + 25$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^2 b^2 + 8abc^2 + 16c^4$$

## Faktoriziraj prema formuli za kvadrat binoma

$$a^2 + 4a + 4 = (a + 2)^2$$

$$x^2 - 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 12b + 9 = (2b - 3)^2$$

$$9a^2 + 30a + 25 = (3a + 5)^2$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^2 b^2 + 8abc^2 + 16c^4$$

## Faktoriziraj prema formuli za kvadrat binoma

$$a^2 + 4a + 4 = (a + 2)^2$$

$$x^2 - 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 12b + 9 = (2b - 3)^2$$

$$9a^2 + 30a + 25 = (3a + 5)^2$$

$$x^2 - 14xy + 49y^2 = (x - 7y)^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^2 b^2 + 8abc^2 + 16c^4$$

## Faktoriziraj prema formuli za kvadrat binoma

$$a^2 + 4a + 4 = (a + 2)^2$$

$$x^2 - 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 12b + 9 = (2b - 3)^2$$

$$9a^2 + 30a + 25 = (3a + 5)^2$$

$$x^2 - 14xy + 49y^2 = (x - 7y)^2$$

$$16a^2 - 40ab + 25b^2 = (4a - 5b)^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^2 b^2 + 8abc^2 + 16c^4$$

## Faktoriziraj prema formuli za kvadrat binoma

$$a^2 + 4a + 4 = (a + 2)^2$$

$$x^2 - 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 12b + 9 = (2b - 3)^2$$

$$9a^2 + 30a + 25 = (3a + 5)^2$$

$$x^2 - 14xy + 49y^2 = (x - 7y)^2$$

$$16a^2 - 40ab + 25b^2 = (4a - 5b)^2$$

$$64x^2 - 96xy + 36y^2 = (8x - 6y)^2$$

$$a^2 b^2 + 8abc^2 + 16c^4$$



## Faktoriziraj prema formuli za kvadrat binoma

$$a^2 + 4a + 4 = (a + 2)^2$$

$$x^2 - 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 12b + 9 = (2b - 3)^2$$

$$9a^2 + 30a + 25 = (3a + 5)^2$$

$$x^2 - 14xy + 49y^2 = (x - 7y)^2$$

$$16a^2 - 40ab + 25b^2 = (4a - 5b)^2$$

$$64x^2 - 96xy + 36y^2 = (8x - 6y)^2$$

$$a^2 b^2 + 8abc^2 + 16c^4 = (ab + 4c^2)^2$$

# Izdvoji netočne izraz

## Izdvoji netočne izraz

$$a^2 + 8a + 4$$

$$x^2 + 6x + 9$$

$$4a^2 + 4a + 1$$

$$25x^2 - 10x + 1$$

$$4b^2 - 24b + 9$$

$$9a^2 + 40a + 25$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^3b^2 + 8abc^2 + 16c^4$$

## Izdvoji netočne izraz

$$a^2 + 8a + 4 = (a + 2)^2$$

$$x^2 + 6x + 9$$

$$4a^2 + 4a + 1$$

$$25x^2 - 10x + 1$$

$$4b^2 - 24b + 9$$

$$9a^2 + 40a + 25$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^3b^2 + 8abc^2 + 16c^4$$

## Izdvoji netočne izraz

$$a^2 + 8a + 4 = (a + 2)^2$$

$$x^2 + 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1$$

$$25x^2 - 10x + 1$$

$$4b^2 - 24b + 9$$

$$9a^2 + 40a + 25$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^3b^2 + 8abc^2 + 16c^4$$

## Izdvoji netočne izraz

$$a^2 + 8a + 4 = (a + 2)^2$$

$$x^2 + 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1$$

$$4b^2 - 24b + 9$$

$$9a^2 + 40a + 25$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^3b^2 + 8abc^2 + 16c^4$$

## Izdvoji netočne izraz

$$a^2 + 8a + 4 = (a + 2)^2$$

$$x^2 + 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 24b + 9$$

$$9a^2 + 40a + 25$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^3b^2 + 8abc^2 + 16c^4$$

## Izdvoji netočne izraz

$$a^2 + 8a + 4 = (a + 2)^2$$

$$x^2 + 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 24b + 9 = (2b - 3)^2$$

$$9a^2 + 40a + 25$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^3b^2 + 8abc^2 + 16c^4$$



## Izdvoji netočne izraz

$$a^2 + 8a + 4 = (a + 2)^2$$

$$x^2 + 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 24b + 9 = (2b - 3)^2$$

$$9a^2 + 40a + 25 = (3a + 5)^2$$

$$x^2 - 14xy + 49y^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^3b^2 + 8abc^2 + 16c^4$$

## Izdvoji netočne izraz

$$a^2 + 8a + 4 = (a + 2)^2$$

$$x^2 + 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 24b + 9 = (2b - 3)^2$$

$$9a^2 + 40a + 25 = (3a + 5)^2$$

$$x^2 - 14xy + 49y^2 = (x - 7y)^2$$

$$16a^2 - 40ab + 25b^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^3b^2 + 8abc^2 + 16c^4$$

## Izdvoji netočne izraz

$$a^2 + 8a + 4 = (a + 2)^2$$

$$x^2 + 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 24b + 9 = (2b - 3)^2$$

$$9a^2 + 40a + 25 = (3a + 5)^2$$

$$x^2 - 14xy + 49y^2 = (x - 7y)^2$$

$$16a^2 - 40ab + 25b^2 = (4a + 5b)^2$$

$$64x^2 - 96xy + 36y^2$$

$$a^3b^2 + 8abc^2 + 16c^4$$

## Izdvoji netočne izraz

$$a^2 + 8a + 4 = (a + 2)^2$$

$$x^2 + 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 24b + 9 = (2b - 3)^2$$

$$9a^2 + 40a + 25 = (3a + 5)^2$$

$$x^2 - 14xy + 49y^2 = (x - 7y)^2$$

$$16a^2 - 40ab + 25b^2 = (4a + 5b)^2$$

$$64x^2 - 96xy + 36y^2 = (8x - 8y)^2$$

$$a^3 b^2 + 8abc^2 + 16c^4$$

## Izdvoji netočne izraz

$$a^2 + 8a + 4 = (a + 2)^2$$

$$x^2 + 6x + 9 = (x - 3)^2$$

$$4a^2 + 4a + 1 = (2a + 1)^2$$

$$25x^2 - 10x + 1 = (5x - 1)^2$$

$$4b^2 - 24b + 9 = (2b - 3)^2$$

$$9a^2 + 40a + 25 = (3a + 5)^2$$

$$x^2 - 14xy + 49y^2 = (x - 7y)^2$$

$$16a^2 - 40ab + 25b^2 = (4a + 5b)^2$$

$$64x^2 - 96xy + 36y^2 = (8x - 8y)^2$$

$$a^3 b^2 + 8abc^2 + 16c^4 = (ab + 4c^2)^2$$