## ROZKLAD KVADRATICKÉHO TROJŪLENA NA STŪN KORENOVÝCH ČINITEĽOV

$$(ax^2+bx+c)=a(x-x_1)(x-x_2)$$

KVADRAT.
TROJĒLĒN

TIETO ZATVORKY SA VOLAJŪ KORENOVE CIVITELE

lebo milove' body sy'il kalooniel su'horene hvodial sornice

 $ax^2+bx+c=0$ 

Nicktoré hvadratiché hojdeny sa nedajú rostosit. Volajú sa IREDUCIBILNÉ.

Pedaleva, Str. 13/14

a) 
$$x = 5x + 6 = (x - 3)(x - 2)$$
 leto  $(-3) + (-2) = -5$   $(-3) \cdot (-2) = -6$ 

$$b_1$$
  $\times 47 \times 10 = (x+5)(x+2)$  less  $5.2 = 10$   $5+2 = 7$ 

C) 
$$x^{2}(-2) = (x+4)(x-2)$$
 less  $(+4) + (-2) = (2)$   $(+4) \cdot (-2) = (-8)$ 

d) 
$$\times^{2}$$
  $(+10)$   $(-11)$  =  $(x+11)(x-1)$  leto  $(+11) + (-1) = (+10)$   $(+11)$ .  $(-1)$  =  $(-17)$ 

e) 
$$x^2 + x(-2) = (x+2)(x-1)$$
 leto  $(+2) + (-1) = (+1)$   
leto  $(+2) \cdot (-1) = (-2)$ 

$$f) \times^{2} (M) +30 = (x -5) (x -6) \quad lebo (-5) + (-6) = (1)$$

$$(-5) \cdot (-6) = (30)$$

9) 
$$\times^2$$
 10  $\times$  + 25) =  $(x-5)(x-5)$  less  $(-5) + (-5) = 40$   
 $(-5) \cdot (-5) = 425$ 

h) 
$$x^{2}(4)x^{2}(+4) = (x+2)(x+2)$$
 lebo  $(+2)_{+}(+2) = 4$   
 $(+2)_{+}(+2) = 4$ 

i) 
$$\times (-3) = (\times +3) (\times +3)$$
 leto  $(-3) + (-3) = (-3)$   $(-3) + (-3) = (-3)$ 

$$4x^{2} + 4x + 1 = 4(x^{2} + x + 0,25)) = 4(x + 0,5) = 4(x + 0,5)^{2}$$

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$$4x^{2} + 4x + 1 = 4(x^{2} + x + 0,25)) = 4(x + 0,5)^{2} = 4(x + 0,5)^{2}$$

$$-4(x + 0,5)^{2} = 4(x + 0,5)^{2}$$

k) 
$$16x^2 + -25 = (4x)^2 - 5^2 = (4x - 5)(4x + 5)$$
  
 $a^2 - b^2 = (a - b)(a + b)$ 

$$\ell$$
)  $15\chi^2 - 30\chi = 15(\chi^2 - 2\chi) = 15\chi(\chi - 2)$  symimanie

m) 
$$2x^{2}+x-1=2(x^{2}+0.5)x-0.5)=(x-1)(x+0.5).2=$$

$$=(x-1)(2x+1)$$

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$$3x^{2} - 14x + 10 = 3(x^{2} + \frac{14}{3}) = 3(x - \frac{2}{3})(x - \frac{15}{3}) = 3(x - \frac{2}{3})(x - \frac{15}{3}) = (3x - 2)(x - \frac{15}{3}) = (\frac{14}{3})(x - \frac{15}{3})(x - \frac{15}{3}) = (\frac{14}{3})(x - \frac{15}{3})(x - \frac{15}{3}) = (\frac{14}{3})(x - \frac{15}{3})(x - \frac{15}{3})(x - \frac{15}{3}) = (\frac{14}{3})(x - \frac{15}{3})(x - \frac{$$

0) 
$$-x^{2}+4x+8 = -(x^{2}+x^{2}-8) = -1(x-8)(x+1) =$$
  
=  $(-x+8)(x+1) = (8-x)(x+1)$  leto  $(-8)+1=-4$   
 $(-8)\cdot 1=-8$ 

$$|V| -2x^{2} + 11x - 15 = -2(x^{2}) + 15 = -2(x - \frac{5}{2})(x - \frac{6}{2}) = -2(x - \frac{6}{2}$$

$$(9)$$
 #  $x^2 + 9 = 1REDUCIBILNÝ lebo vzorec  $(a^2 + b^2 = ...$   
=  $x^2 + 2^2$  neekis lyje!$ 

N) 
$$x + 9x + 5 \neq (x + 5)(x + 1)$$
 5.1=5 ale  $5+1 \neq 4$   
**IREDUCIBILALY**  $\neq (x-5)(x-1)$  (-5).(-1)=5 ale (-5)+(-1)=4  
 $\neq (x-5)(x+1)$  (-5). (+1)  $\neq 5$   
 $\neq (x+5)(x-1)$  (+5).(-1)  $\neq +5$