

## Fon 2024 – detaljno rešeni zadaci sa prijemnog

1.  $\uparrow 13000 \dots \uparrow 26\%$   
 $X \text{ gura} \dots 100\%$

$$X : 13000 = 100 : 26$$

$$X = \frac{13000 \cdot 100}{26} = 50000 \text{ gura}$$

уена л.т.

$$50000 - (13000 + 13500) = 23500 \text{ гур}$$

2.  $\left(36,5 + \left(\frac{1}{25}\right)^{\frac{1}{2}} - \frac{3}{2}\right)^{\frac{1}{2}} \cdot \left(\sqrt[3]{27+2^3-1}\right)^{-\frac{1}{2}} =$

$$\left(36,5 + \sqrt{25} - \frac{3}{2}\right)^{\frac{1}{2}} \cdot \left(3+8-1\right)^{-\frac{1}{2}} =$$

$$\left(36,5 + 5 - 1,5\right)^{\frac{1}{2}} \cdot 10^{-\frac{1}{2}} =$$

$$40^{\frac{1}{2}} \cdot \frac{1}{10^{\frac{1}{2}}} = 4^{\frac{1}{2}} = \sqrt{4} = 2$$

3.  $\left(\frac{ab}{a-b} + a\right) \cdot \left(\frac{ab}{a+b} - a\right) : \frac{a^2b^2}{a^2-b^2} =$

$$\frac{ab+a^2-ab}{a-b} \cdot \frac{ab-a^2-ab}{a+b} : \frac{a^2b^2}{a^2-b^2} =$$

$$\frac{-a^4}{(a-b)(a+b)} \cdot \frac{(a-b)(a+b)}{a^2b^2} = -\frac{a^2}{b^2}$$

4.  $(1+i)^{2024} = ((1+i)^2)^{1012} = (2i)^{1012} = 2^{1012} \cdot i^{1012} = 2$

$$(1-i)^{2025} = (1-i)(1-i)^{2024} = (1-i)(-2i)^{1012} = 2^{1012} \cdot i^{1012} \cdot (1-i)$$

$$z = \frac{2^{1012} \cdot (1-i)}{2^{1012}} = 1-i$$

$\operatorname{Re}(z) = 1 \quad \operatorname{Im}(z) = -1$

$$5. \quad f(x+3) = 2x+5$$

$$x+3 = t$$

$$x = t-3$$

$$f(t) = 2(t-3) + 5$$

$$f(t) = 2t - 6 + 5$$

$$f(t) = 2t - 1$$

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

$$g(x-1) = 3x+2$$

$$g(2x-1-1) = 3x+2$$

$$g(2x-2) = 3x+2$$

$$2x-2 = t \Rightarrow x = \frac{t+2}{2}$$

$$g(t) = 3 \cdot \frac{t+2}{2} + 2$$

$$g(t) = \frac{3t+10}{2}$$

$$g(x) = \frac{3x+10}{2}$$

$$h(x) = 3f(x) + 2g(x)$$

$$= 3(2x-1) + 2 \cdot \frac{3x+10}{2} = 6x-3 + 3x+10$$

$$= 9x+7$$

$$6. \quad 1 + 9^{\sqrt{x^2+x+0,5}} = 4 \cdot 3^{\sqrt{x^2+x}}$$

$$1 + 9^{\sqrt{x^2+x}} \cdot 3 = 4 \cdot 3^{\sqrt{x^2+x}}$$

$$3^{\sqrt{x^2+x}} = t \quad 3^{\sqrt{x^2+x}} = 1 = 3^0$$

$$1 + 3t^2 = 4t$$

$$3t^2 - 4t + 1 = 0$$

$$t_{1,2} = \frac{4 \pm 2}{6}$$

$$t_1 = 1 \quad t_2 = \frac{1}{3} = 3^{-1}$$

$$\sqrt{x^2+x} = 0$$

$$x_1 = -1 \quad x_2 = 0$$

$$\sqrt{x^2+x} = -1$$

Memorize

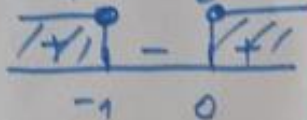
$$x_1 + x_2 = -1 + 0 = -1$$

ycnob

$$x^2+x \geq 0$$

$$x(x+1) \geq 0$$

$$x_1 = 0 \quad x_2 = -1$$



$$x \in (-\infty, -1] \cup [0, \infty)$$

$$\begin{aligned}
 7. \quad & \log_{\sqrt{5}} 7 \cdot \log_9 25 = 3 \log_{5^{\frac{1}{2}}} 7 \cdot \log_{3^2} 5^2 \quad \left. \begin{aligned} \log_a B^m &= m \log_a B \\ \log_{\frac{a}{5}} B &= \frac{1}{5} \log_a B \end{aligned} \right\} \\
 & = 3 \cdot 2 \log_5 7 \cdot 2 \cdot \frac{1}{2} \log_3 5 \\
 & = 3 \log_5 49 \cdot \frac{1}{\log_5 3} = 3 \log_3 49 = 49 \quad \left. \begin{aligned} \log_a B &= \frac{\log_c B}{\log_c A} \\ A \log_a B &= B \end{aligned} \right\}
 \end{aligned}$$

$$8. \quad \frac{x^2 - 12x + 20}{x^2 - 7x + 6} - 2 \geq 0 \quad \begin{aligned} & (x^2 - 7x + 6) \neq 0 \\ & x \neq 1 \wedge x \neq 6 \end{aligned}$$

$$\frac{x^2 - 12x + 20 - 2x^2 + 14x - 12}{x^2 - 7x + 6} \geq 0$$

$$\frac{-x^2 + 2x + 8}{x^2 - 7x + 6} \geq 0 \quad (|-1)$$

$$\frac{x^2 - 2x - 8}{x^2 - 7x + 6} \leq 0$$

$$\frac{(x-4)(x+2)}{(x-1)(x-6)} \leq 0$$

	$-\infty$	$-2$	$1$	$4$	$6$	$\infty$
$x-4$	-	-	-	+	+	
$x+2$	-	+	+	+	+	
$x-1$	-	-	+	+	+	
$x-6$	-	-	-	-	+	
R	+	-	+	-	+	

$$x \in [-2, 1) \cup [4, 6)$$

$-2, -1, 0$  u  $4, 5 \rightarrow$  Sperrwerte  $\in \mathbb{Z}$

$$9. \quad b_1 + b_2 = 16$$

$$\underline{b_3 - b_1 = 32}$$

$$b_1 + b_1 q = 16$$

$$\underline{b_1 q^2 - b_1 = 32}$$

$$\left. \begin{array}{l} b_1(1+q) = 16 \\ b_1(q^2-1) = 32 \end{array} \right\}$$

$$\frac{b_1(1+q)}{b_1(q-1)(q+1)} = \frac{16}{32}$$

$$\frac{1}{q-1} = \frac{1}{2}$$

$$q-1=2 \Rightarrow \boxed{q=3}$$

$$b_1 \cdot (1+3) = 16$$

$$\boxed{b_1 = 4}$$

$$4, 12, 36, 108$$

$$b_1 + b_2 + b_3 + b_4 = 4 + 12 + 36 + 108 = 160$$

$$10. \quad \log_{x-1}(x+1) + 4 \log_{x+1}(x-1) = 4$$

$$\log_{x-1}(x+1) + \frac{4}{\log_{x-1}(x+1)} = 4$$

мена:  $\log_{x-1}(x+1) = t$

$$t + \frac{4}{t} = 4 \quad | \cdot t$$

$$t^2 + 4 = 4t$$

$$t^2 - 4t + 4 = 0$$

$$(t-2)^2 = 0 \rightarrow t=2$$

yendo

$$x+1 > 0 \rightarrow x > -1$$

$$x-1 > 0 \rightarrow x > 1$$

$$x+1 \neq 1 \rightarrow x \neq 0$$

$$x-1 \neq 1 \rightarrow x \neq 2$$

$$x \in (1, 2) \cup (2, \infty)$$

$$\log_{x-1}(x+1) = 2$$

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

$$x+1 = x^2 - 2x + 1$$

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

$$x_1 = 0 \quad \boxed{x_2 = 3} \quad | \quad x$$

we none

$$11. \quad Q(x) = x^3 + x = x(x^2 + 1) = x(x-i)(x+i)$$

$$P(x) = Q(x) \cdot \text{Нешу } 0 + (Ax^2 + Bx + C) \quad \begin{matrix} x=0, & x=i, & x=-i \\ \text{осі ашак} \end{matrix}$$

$$P(0) = 0^{2024} + 0^{25} - 0^6 + 1 = 1$$

$$1 = 0 + A \cdot 0^2 + B \cdot 0 + C \Rightarrow \boxed{C=1}$$

$$P(i) = i^{2024} + i^{25} - i^6 + 1 = 1 + i + 1 + 1 = 3 + i$$

$$3 + i = A \cdot i^2 + B \cdot i + 1 \Rightarrow 3 + i = -A + Bi + 1$$

$$P(-i) = (-i)^{2024} + (-i)^{25} - (-i)^6 + 1 = 1 - i + 1 + 1 = 3 - i$$

$$3 - i = A(-i)^2 + B(-i) + 1 \Rightarrow 3 - i = -A - Bi + 1$$

$$\begin{cases} -A + Bi + 1 = 3 + i & \Rightarrow B = 1 \\ -A - Bi + 1 = 3 - i \end{cases}$$

$$\underline{-2A = 6 - 2}$$

$$-2A = 4 \Rightarrow A = -2$$

$$Ax^2 + Bx + C = -2x^2 + x + 1$$

*осі ашак*

$$\begin{aligned}
 (2) \quad \frac{1}{\sin 10^\circ} - \frac{\sqrt{3}}{\cos 10^\circ} &= \frac{\cos 10^\circ - \sqrt{3} \sin 10^\circ}{\sin 10^\circ \cdot \cos 10^\circ} = \\
 &= \frac{2 \cdot \left( \frac{1}{2} \cos 10^\circ - \frac{\sqrt{3}}{2} \sin 10^\circ \right)}{\frac{1}{2} \cdot \underbrace{2 \sin 10^\circ \cdot \cos 10^\circ}_{\sin 2x}} = \frac{2 \cdot \left( \sin 30^\circ \cos 10^\circ - \cos 30^\circ \sin 10^\circ \right)}{\frac{1}{2} \sin 20^\circ} \\
 &= \frac{2 \cdot \sin(30^\circ - 10^\circ)}{\frac{1}{2} \sin 20^\circ} = 4
 \end{aligned}$$

13.  $\sqrt{-x^2+x+6} > 1-x$

$\sqrt{P} > Q \Leftrightarrow (P \geq 0 \wedge Q < 0) \vee (P > Q^2 \wedge Q \geq 0)$

$(-x^2+x+6 \geq 0 \wedge 1-x < 0) \vee (-x^2+x+6 > (1-x)^2 \wedge 1-x \geq 0)$

$-x^2+x+6=0 \quad -x < -1 \quad -x^2+x+6 > 1-2x+x^2 \quad x \leq 1$

$x_1 = -2 \quad x_2 = 3$

$x > 1$

$-2x^2+3x+5 > 0$

$x_1 = -1 \quad x_2 = 2,5$

$x \in (1, 3]$

$x \in (-1, 1]$

конечно  $x \in (-1, 1] \cup (1, 3] \Rightarrow x \in (-1, 3]$

$x \in \{0, 1, 2, 3\}$

$$14. \quad \frac{x^2}{4} - \frac{y^2}{3} = 1$$

$$x^2 + (y-7)^2 = 32$$

da primeiro passo devemos dar atenção especial

$$\frac{x^2}{4} = 1 + \frac{y^2}{3} \Rightarrow x^2 = 4 \left( 1 + \frac{y^2}{3} \right)$$

$$x^2 = 4 \cdot (1+3)$$

$$x_{1,2} = \pm 4$$

$$4 \left( 1 + \frac{y^2}{3} \right) + (y-7)^2 = 32$$

$$4 + \frac{4y^2}{3} + y^2 - 14y + 49 = 32$$

$$A = P_1(4,3) \quad P_2(-4,3)$$

"B"

$$\frac{7y^2}{3} - 14y + 21 = 0 \quad /:7 \rightarrow$$

$$\frac{y^2}{3} - 2y + 3 = 0$$

$$y^2 - 6y + 9 = 0$$

$$(y-3)^2 = 0$$

$$\boxed{y=3}$$

Para encontrar as assíntotas

$$\frac{x^2}{4} - \frac{y^2}{3} = 1 \rightarrow a^2=4 \quad b^2=3$$

$$a^2 k^2 - b^2 = u^2$$

$$4k^2 - 3 = u^2$$

$$k^2 = \frac{u^2+3}{4}$$

$$k = \pm \frac{\sqrt{u^2+3}}{2}$$

$$k = \pm 1$$

$$t_1: y = x - 1$$

$$t_2: y = -x - 1$$

$$\text{us } x^2 + (y-7)^2 = 32$$

$$p=0 \quad q=7 \quad r^2=32$$

$$r^2(k^2+1) = (kp-q+u)^2$$

$$32(k^2+1) = (-7+u)^2$$

$$32 \left( \frac{u^2+3}{4} + 1 \right) = u^2 - 14u + 49$$

$$8u^2 + 24 + 32 - u^2 + 14u - 49 = 0$$

$$7u^2 + 14u + 7 = 0$$

$$u^2 + 2u + 1 = 0$$

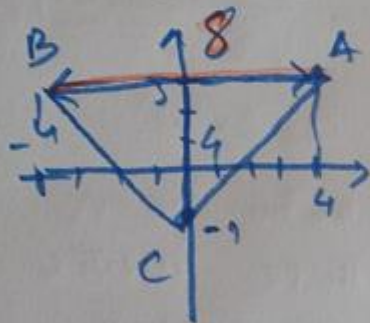
$$(u+1)^2 = 0 \rightarrow \boxed{u=-1}$$

да најдемо  $C$  као  $t_1 \cap t_2$  (сечењем)

$$x-1 = -x-1$$

$$x=0 \Rightarrow y=-1 \quad C(0,-1)$$

имамо две тачке  $A(4,3)$   $B(-4,3)$



$$C(0,-1)$$

$$P = \frac{AB \cdot h_{AB}}{2} = \frac{8 \cdot 4}{2} = 16$$

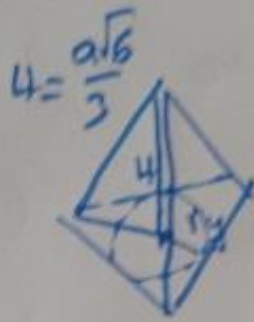
А може и преко формуле за  $P_{\Delta}$  или  
преко вектор  $A$  (обако најпростије)



15.



$$V_v = r^2 \pi H_v$$



$$V_T = \frac{1}{3} B H_T$$

$$V = \frac{1}{3} \frac{a^2 \sqrt{3}}{4} \cdot \frac{a \sqrt{6}}{3}$$

$$V = \frac{\sqrt{2} a^3}{12} \rightarrow$$

$$r = r_y$$

$$r_y = \frac{a \sqrt{3}}{6}$$

$$a \sqrt{3} = 6r$$

$$a = \frac{6r}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = 2r \sqrt{3}$$

$$a = 2\sqrt{3}r$$

хете преба  
цето чистото  
га знамо

$$V_v = V_T$$

$$r^2 \pi H_v = \frac{1}{3} \frac{a^2 \sqrt{3}}{4} \cdot H_T$$

$$r^2 \pi H_v = \frac{1}{12} \cdot (2\sqrt{3})^2 \sqrt{3} \cdot H_T$$

$$\pi H_v = \sqrt{3} \cdot H_T$$

$$H_v : H_T = \sqrt{3} : \pi$$

16.

$$\begin{aligned}
 V &= \frac{1}{3} \pi h^2 R \\
 V &= \frac{1}{3} r^2 \pi h \\
 h &= \frac{3V}{r^2 \pi}
 \end{aligned}
 \qquad
 \begin{aligned}
 h^2 + r^2 &= s^2 \\
 \frac{9V^2}{r^4 \pi^2} + r^2 &= s^2 \\
 \frac{9V^2 + r^6 \pi^2}{r^4 \pi^2} &= s^2
 \end{aligned}
 \qquad
 s = \sqrt{\frac{9V^2 + r^6 \pi^2}{r^4 \pi^2}}$$

$$M = s r \pi = \sqrt{\frac{9V^2 + r^6 \pi^2}{r^4 \pi^2}} \cdot r \cdot \pi = \sqrt{\frac{9V^2 + r^6 \pi^2}{r^2 \pi^2}} \cdot \pi$$

$$M'_r = \frac{\pi}{2 \sqrt{\frac{9V^2 + r^6 \pi^2}{r^2 \pi^2}}} \cdot \frac{6\pi^2 r^5 \cdot r^2 \pi^2 - 2r \pi^2 (9V^2 + r^6 \pi^2)}{(r^2 \pi^2)^2}$$

$$\begin{aligned}
 6\pi^4 r^7 - 18rV^2 \pi^2 - 2r^7 \pi^4 &= 0 \\
 4r^7 \pi^4 &= 18rV^2 \pi^2 \\
 r^6 &= \frac{9V^2}{2\pi^2} \Rightarrow r = \sqrt[6]{\frac{9V^2}{2\pi^2}}
 \end{aligned}$$

$$h = \frac{3V}{r^2 \pi} = \frac{3V}{\pi} \cdot \sqrt[3]{\frac{2\pi^2}{9V^2}} = \sqrt[3]{\frac{2\pi^2}{9V^2} \cdot \frac{27V^3}{\pi^3}}$$

$$h = \sqrt[3]{\frac{6V}{\pi}}$$

сая грашино s

$$s^2 = \sqrt[3]{\frac{9v^2}{2\pi^2}} + \sqrt[3]{\frac{72v^2}{2\pi^2}}$$

$$s^2 = \frac{\sqrt[3]{9v^2} + 2\sqrt[3]{9v^2}}{\sqrt[3]{2\pi^2}} = \frac{3\sqrt[3]{9v^2}}{\sqrt[3]{2\pi^2}}$$

$$s = \sqrt{3} \sqrt[6]{\frac{9v^2}{2\pi^2}}$$

$$M = s r \pi$$

$$M = \sqrt{3} \sqrt[6]{\frac{9v^2}{2\pi^2}} \cdot \sqrt[6]{\frac{9v^2}{2\pi^2}} \cdot \pi$$

$$M = \sqrt{3} \sqrt[6]{\frac{81v^4}{4\pi^4}} \cdot \sqrt[6]{\pi^6}$$

$$M = \sqrt{3} \sqrt[6]{\frac{81v^4}{4\pi^4} \cdot \pi^6} = \sqrt{3} \sqrt[6]{\frac{81v^4\pi^2}{4}}$$

~~81 = 3^4~~

$$M = \sqrt{3} \sqrt[3]{\frac{9v^2\pi}{2}}$$

$$\sqrt[3]{9} = \sqrt[3]{3^2}$$

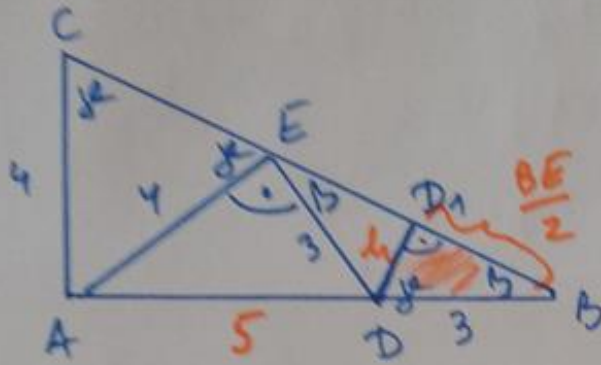
$$= \sqrt[3]{3^2 \cdot 3}$$

$$M = \sqrt{3} \cdot \sqrt[3]{\frac{\sqrt{3}v^2\pi}{2}}$$

$$= \sqrt{3} \sqrt[3]{3}$$

$$| M = 3 \sqrt[3]{\frac{\sqrt{3} \cdot v^2 \pi}{2}} |$$

17.



$\triangle ABE$  je pravougli  $AD^2 = 4^2 + 3^2 = 16 + 9 = 25$   
 $AD = 5 \text{ cm}$

$\triangle DD_1B \sim \triangle ABC$

$4 : 3 = 4\sqrt{5} : 3$

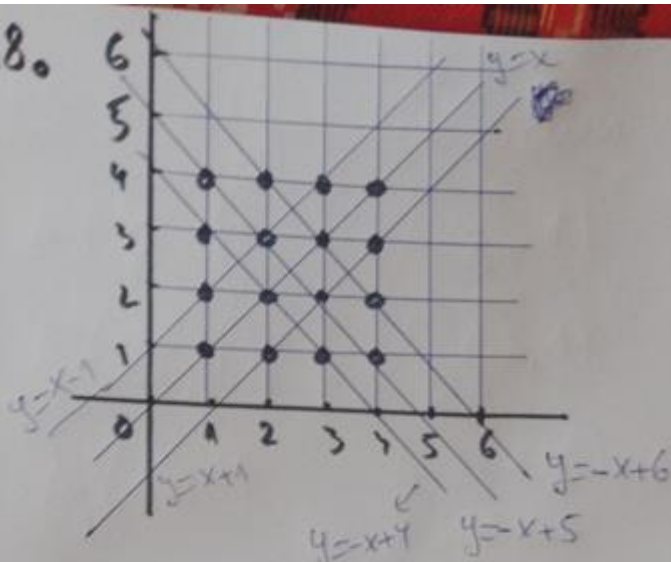
$h_1 = \frac{3}{\sqrt{5}} = \frac{3\sqrt{5}}{5}$

$8 : \frac{BE}{2} = 4\sqrt{5} : 3$

$BE = \frac{12 \cdot 3}{4\sqrt{5}} = \frac{12\sqrt{5}}{5}$

$P_{\triangle BDD_1} = \frac{1}{2} BE \cdot h_1 = \frac{1}{2} \cdot \frac{12\sqrt{5}}{5} \cdot \frac{3\sqrt{5}}{5} = \frac{18}{5}$   
 $= 3,6 \text{ cm}^2$

18.



ИМАМО 16 ТАЧКА, од њих дајемо 3

$$C_3^{16} = \frac{16 \cdot 15 \cdot 14}{3 \cdot 2 \cdot 1} = 560$$

Сада морамо да избацујемо:

→ ако све тачке имају исти  $x$ -коор.

нпр.  $A_1(1,1)$   $A_2(1,2)$   $A_3(1,3)$  за  $x=1 \rightarrow$  има 4

$$3A_2 = 2 \rightarrow -11 - 4$$

$$3A_3 = 3 \rightarrow -11 - 4$$

$$3A_4 = 4 \rightarrow -11 - 4$$

(16)

→ ако све тачке имају исти  $y$ -коор.  
исто дајемо (16)

→ на правима  $y=x$  и  $y=-x+5$  дајемо по 4  
то је (8)

→ на правима  $y=x+1$ ,  $y=x-1$ ,  $y=x+4$ ,  $y=-x+6$   
дајемо по 1 → 3+4+4 (4)

укупно дајемо  $16+16+12=44$   $560-44=516$

$$19. \left(\sqrt{6} + \frac{1}{\sqrt[3]{2}}\right)^{40} \rightarrow a = \sqrt{6} = 6^{\frac{1}{2}}$$

$$T_{k+1} = \binom{n}{k} a^{n-k} b^k \quad b = \frac{1}{\sqrt[3]{2}} = \frac{1}{2^{\frac{1}{3}}} \quad n = 40$$

$$T_{k+1} = \binom{40}{k} (6^{\frac{1}{2}})^{40-k} \cdot \left(\frac{1}{2^{\frac{1}{3}}}\right)^k$$

$$T_{k+1} = \binom{40}{k} \frac{6^{\frac{40-k}{2}}}{2^{\frac{k}{3}}} \quad k = 0, 1, 2, \dots, 40$$

$\frac{40-k}{2}$  и  $\frac{k}{3}$  морају бити цели  
и још важило рачуна да  $\frac{40-k}{2} \geq \frac{k}{3}$   
да би могли да се скрате да  
не остане 2 годе (дате @)

$$k=0 \rightarrow \frac{40-k}{2} = 20 \quad \frac{k}{3} = 0 \rightarrow \text{ради}$$

$$k=3 \rightarrow \frac{40-k}{2} = \frac{37}{2} \rightarrow \text{нече}$$

$$k=6 \rightarrow \frac{40-k}{2} = 17 \quad \frac{k}{3} = \frac{6}{3} = 2 \quad \checkmark$$

$$k=12 \rightarrow \frac{40-k}{2} = 14 \quad \frac{12}{3} = 4 \quad \checkmark$$

$$k=18 \rightarrow \frac{40-k}{2} = 11 \quad \frac{18}{3} = 6 \quad \checkmark \quad \textcircled{5}$$

$$k=24 \rightarrow \frac{40-k}{2} = 8 \quad \frac{24}{3} = 8 \quad \checkmark \quad \text{и х х х х}$$

$$k=30 \rightarrow \frac{40-k}{2} = 5 \quad \frac{30}{3} = 10 \rightarrow \text{нече}$$

$$20. \quad 11 \cos 2x - 3 = 3 \sin 3x - 11 \sin x$$

$$\cos 2x = \cos^2 x - \sin^2 x = 1 - \sin^2 x - \sin^2 x = 1 - 2\sin^2 x$$

$$\begin{aligned} \sin 3x &= \sin(2x+x) = \sin 2x \cos x + \cos 2x \sin x \\ &= 2\sin x \cos x \cos x + (1 - 2\sin^2 x) \sin x \\ &= 2\sin x (1 - \sin^2 x) + \sin x - 2\sin^3 x \\ &= 2\sin x - 2\sin^3 x + \sin x - 2\sin^3 x \\ &= -4\sin^3 x + 3\sin x \end{aligned}$$

$$11(1 - 2\sin^2 x) - 3 = 3(-4\sin^3 x + 3\sin x) - 11\sin x$$

$$11 - 22\sin^2 x - 3 = -12\sin^3 x - 2\sin x$$

$$12\sin^3 x - 22\sin^2 x + 2\sin x + 8 = 0 \quad /: 2$$

$$6\sin^3 x - 11\sin^2 x + \sin x + 4 = 0$$

$$\begin{aligned} \sin x &= t \\ 6t^3 - 11t^2 + t + 4 &= 0 \end{aligned}$$

$$\text{Let } t=1 \rightarrow 6 - 11 + 1 + 4 = 0$$

ради  
и

Безуба теорем  
+1 +2 +4  
-1 -2 -4  
пробано

сва гелимо полиномо

$$(6t^3 - 11t^2 + t + 4) : (t-1) = 6t^2 - 5t - 4$$

$$\begin{array}{r} \ominus 6t^3 \\ \oplus 6t^2 \\ \hline \end{array}$$

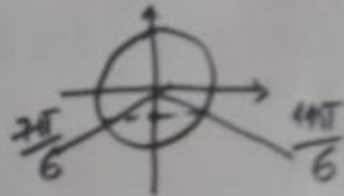
$$\begin{array}{r} -5t^2 + t \\ \oplus 5t^2 + 5t \\ \hline -4t + 4 \\ \oplus 4t \\ \hline 4 \\ \oplus 4 \\ \hline \end{array}$$

$$6t^2 - 5t - 4 = 0$$

$$t_1 = -\frac{1}{2} \quad t_2 = \frac{4}{3}$$

$$\sin x = 1 \quad \vee \quad \sin x = -\frac{1}{2} \quad \vee \quad \sin x = \frac{4}{3}$$

$$x = \frac{\pi}{2} + 2k\pi$$



Umemorizirajte

$[0, 2\pi)$

3A  $k=0$   $x = \frac{\pi}{2}$

3A  $k=1$   $x = 2\pi + \frac{\pi}{2}$

$$x = \frac{7\pi}{6} + 2k\pi \quad \vee \quad x = \frac{11\pi}{6} + 2k\pi$$

3A  $k=1 \rightarrow x = \frac{7\pi}{6}$

3A  $k=1 \rightarrow x = \frac{11\pi}{6}$

$$\frac{\pi}{2} + \frac{7\pi}{6} + \frac{11\pi}{6} = \frac{3\pi + 11\pi}{6}$$

$$= \frac{24\pi}{6} = \frac{7\pi}{2}$$