

НАКБЫ TEST 2018

МАТЕМАТИКА

3-ӘИМ

№21) $\sqrt[3]{a} + \sqrt[3]{a} + \sqrt[3]{0} \dots = 2$

$a + \sqrt[3]{a} + \sqrt[3]{a} \dots = 8$

$a + 2 = 8$

$a = 6$

$\sqrt{a} - \sqrt{a} - \sqrt{a} \dots \Rightarrow \sqrt{6} - \sqrt{6} - \sqrt{6} \dots = y$

$6 - y = y^2$

$y = 2$

Жауоб: 2

№22) $\cos 10^\circ - 2 \cos 50^\circ - \cos 70^\circ =$

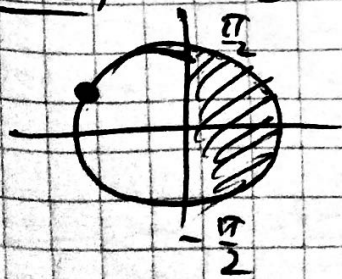
$= -2 \sin \frac{10-70}{2} \cdot \sin \frac{10+70}{2} - 2 \cos 50^\circ =$

$= 2 \sin 30^\circ \cdot \sin 40^\circ - 2 \cos 50^\circ =$

$= \sin 40^\circ - 2 \cdot \sin 40^\circ = -\sin 40^\circ =$

$= -\cos 50^\circ$

№23) $\text{arc sin}(\sin 3) = \pi - 3$



Жауоб: $\pi - 3$

224 $a^2 + b^2 = 14ab \Rightarrow (a+b)^2 = 16ab$

$$\begin{aligned} & \frac{4 \lg \frac{a+b}{4}}{\lg \frac{1}{a} + \lg \frac{1}{b}} = \frac{4 \cdot \lg \frac{a+b}{4}}{\lg \frac{1}{ab}} \\ & = \frac{2 \lg \frac{(a+b)^2}{16}}{\lg \frac{1}{16ab}} = \frac{2 \cdot \lg \frac{16ab}{16}}{\lg \frac{1}{ab}} \\ & = \frac{2 \lg ab}{\lg 1 - \lg ab} = \frac{2 \cdot \cancel{\lg ab}}{-\cancel{\lg ab}} = -2 \end{aligned}$$

225 $\frac{2a^2 + ab - b^2}{a+b} - 2a + 1 =$

$$\begin{aligned} & = \frac{a^2 - b^2 + a^2 + ab}{a+b} - 2a + 1 = \frac{(a-b)(a+b) + a(a+b)}{a+b} \\ & = \frac{\cancel{a+b}(a-b+a)}{\cancel{a+b}} - 2a + 1 = \cancel{a} - b - 2a + 1 = \\ & = 1 - b - a \end{aligned}$$

226 $\left. \begin{array}{l} a+b \\ 12a-b \end{array} \right\} \text{ — ТУС сохнаар.}$

$$\frac{a+b}{12a-b} = \frac{7}{19}$$

$\left. \begin{array}{l} a+b = 7 \\ 12a-b = 19 \end{array} \right\} +$
 $13a = 26$
 $1a = 2$

$$\underline{\text{27}} \quad \frac{9x^2 - 6x + 1}{9} = (x+a)^2 \quad a = ?$$

$$9x^2 - 6x + 1 = 9(x^2 + 2ax + a^2)$$

$$\cancel{9x^2} - 6x + 1 = \cancel{9x^2} + 18ax + 9a^2$$

$$\cancel{-6x} = 18a \cancel{x}$$

$$\boxed{a = -\frac{1}{3}}$$

$$\Delta \text{ job: } \boxed{a = -\frac{1}{3}}$$

$$\underline{\text{28}} \quad x = \sqrt{42} - \sqrt{42} - \sqrt{42} \dots$$

$$x^2 = 42 - x \quad \Rightarrow \quad \boxed{x = 6}$$

$$y = \sqrt{6 + \sqrt{6 + \sqrt{6}}}$$

$$y^2 = 6 + y$$

$$\Rightarrow \quad \boxed{y = 3}$$

$$z = \sqrt{3\sqrt{3\sqrt{3}}}$$

$$\Rightarrow \quad \boxed{z = 3}$$

$$z^2 = 3 \cdot z$$

$$x + y + z = 6 + 3 + 3 = 12$$

$$x = \sqrt{x} \dots$$

$x\sqrt{x} - 2\sqrt{x} = 6$ 1) $\left| \begin{array}{l} x\sqrt{x} - 2\sqrt{x} \\ x\sqrt{x} - x \end{array} \right| \begin{array}{l} x - \sqrt{x} \\ \sqrt{x} + 1 \end{array}$

$x - \sqrt{x} = ?$

$(\sqrt{x} + 1)(x - \sqrt{x}) = 6 + 6\sqrt{x}$

~~$(\sqrt{x} + 1)(x - \sqrt{x}) = 6(\sqrt{x} + 1)$~~

$x - \sqrt{x} = 6$

Jawab: 6.

$2 + 3x \leq 5x - 10$

$12 \leq 2x$

$x \geq 6$

Jawab: $x \geq 6$

Muallif: @Pulato Dilmuo) Ho-
 limbayvich

Kanalimuz: @axbaratnoma

@axbaratnoma guruhi