

Лерновик (2)

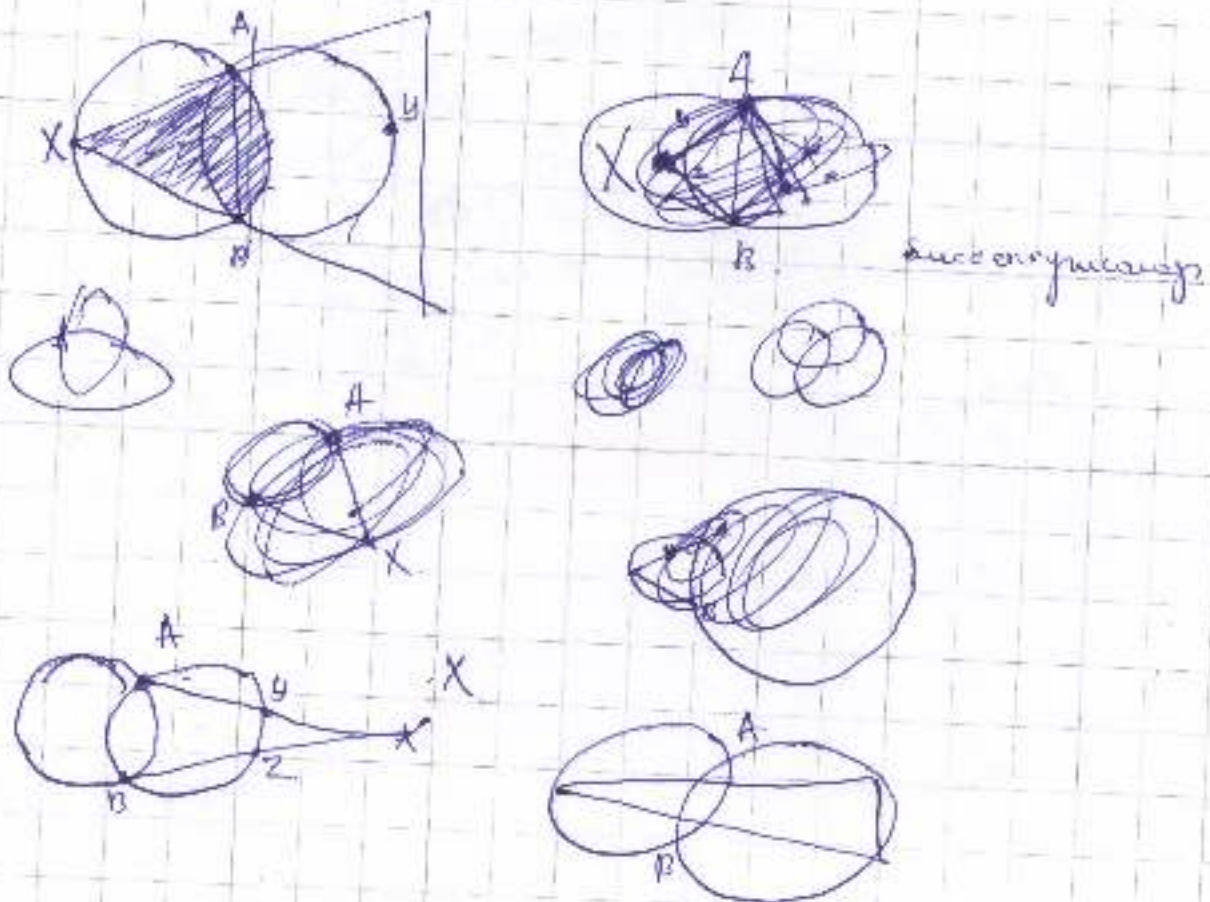
- 1 а) жау.
б) жау.

2 а) $\cos(2^x) + \cos(2^{x+1}) = 0$
 $\cos 2^x(1 + \cos 2) = 0$
 $\cos 2^x = 0$
 $2^x = \frac{\pi}{2} + \pi n$
 $x(1 + 1) = 0$
 $x = 0$ $x = -1$

$3^3 = 27$
20.

б) ~~$f(x) = \cos(2^x) + \cos(2^{x+1})$~~
 ~~$f'(x) = -\sin(2^x) \cdot \ln 2 - \sin(2^{x+1}) \cdot \ln 2$~~
 ~~$f'(x) = -\sin(2^x) \cdot \ln 2 - \sin(2 \cdot 2^x) \cdot \ln 2$~~
 ~~$f'(x) = -\sin(2^x) \cdot \ln 2 - \sin(2^{x+1}) \cdot \ln 2$~~

3



Алғашқы жауап

1 а) жауап

б) жауап

2. а) $\cos(2^x) + \cos(\frac{1}{2}^{x+1}) = 0$

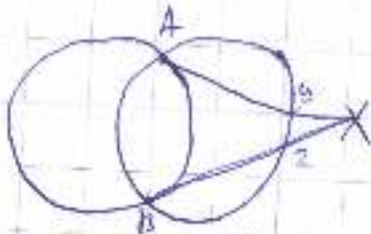
$\cos 2^x(x+1) = 0$

$x(x+1) = 0$

$x = 0 \quad x = -1$

б) ең кіші -1 ең үлкен 1

1 б) $x \frac{13}{13} = 2011$ шығарылған
себебі көп
сан болуы керек
 $\frac{169}{13} = 13$
 $2011 - 13 = 1998$
 $\frac{1998}{13} = 153.7$



- а) себебі дүссенділіктер бірге
- б) себебі. Әлсіздіктерді ұзындықтарын бірге

а) $XA = XB$

$XZ = XZ$

Ашықтада жазуан

$$\begin{array}{r} 4) a) \times 17. \\ \underline{17} \quad 4 \\ + 119 \\ \hline \times 289 \quad 6 \\ \underline{17} \\ 2073 \quad 1 \\ \underline{289} \\ 4913 \quad 26.3 \end{array}$$

1) 2003^2

$$5^3 = 125$$

$$6^3 = 216$$

$$7^3 = 343$$

$$8^3 =$$

$$9^3 = 729$$

$$11^3 = 1331$$

$$\begin{array}{r} \times 12 \\ 12 \\ + 24 \\ \hline 144 \\ \times 12 \\ \hline 288 \\ + 144 \\ \hline 1440 \end{array}$$

$$\begin{array}{r} + 1 \\ 0 \\ + 2 \\ 5 \\ \hline \end{array}$$

$$\begin{array}{r} \times 13 \\ 13 \\ \hline 39 \\ 13 \\ \hline 169 \end{array}$$

$$\begin{array}{r} \times 16 \\ 16 \\ \hline 32 \\ 16 \\ \hline 256 \\ \times 16 \\ \hline 4096 \end{array}$$

$$\begin{array}{r} 2023 \overline{) 4} \\ 20 \\ \hline 23 \\ \times 20 \\ \hline 35 \end{array}$$

$$\left. \begin{array}{l} 3^1 = 3 \\ 3^2 = 9 \\ 3^3 = 27 \\ 3^4 = 81 \end{array} \right\} \text{н.}$$

$$\begin{array}{r} \times 27 \\ 27 \\ \hline 54 \\ \times 27 \\ \hline 1459 \end{array}$$

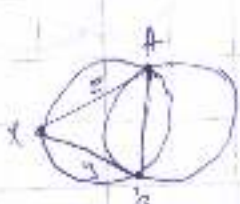
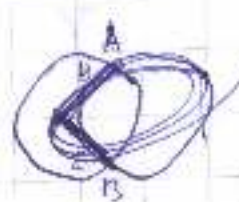
$$(2^2 - 1)(2^{2+1}) = 0$$

$$\cos \neq \cos$$

$$\cos 2 \cdot x(x+1) = 0$$

$$\cos 2 \cdot 2x + x = 0$$

$$2^2 \cdot x + x = 0$$



$$2x + x = 0$$

$$x(x+1) = 0$$

$$x = 0, x = -1$$