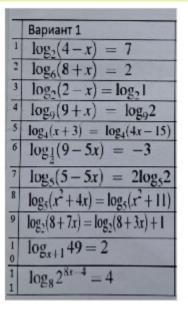
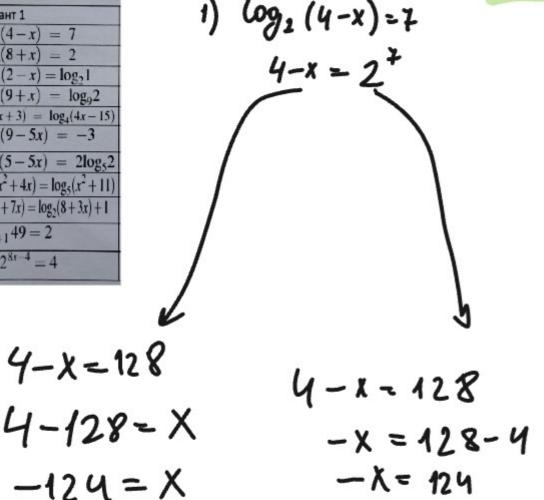
06.02.2024 (вторник)



X=--124



X=-124

$$a^{\log_a b} = b$$

Свойства логарифмов:

1.
$$log_a 1 = 0$$

$$2. \log_a a = 1$$

$$3. \log_a bc = \log_a b + \log_a c$$

$$4. \log_a \frac{b}{c} = \log_a b - \log_a c$$

5.
$$\log_a b^n = n \cdot \log_a b$$

6.
$$\log_{a^k} b = \frac{1}{k} \cdot \log_a b$$

7.
$$\log_{a^k} b^n = \frac{n}{k} \cdot \log_a b$$

8.
$$\log_{a^n} b^n = \log_a b$$

10.
$$\log_a b = \frac{\log_d b}{\log_d a} = \frac{1}{\log_b a}$$

11.
$$log_a b \cdot log_b a = 1$$

$$12. \ a^{\log_b c} = c^{\log_b a}$$

2)
$$\log_{6}(8+x)=2$$
3) $\log_{2}(2-x)=\log_{2}1$
 $\log_{2}1=0$
 $2+x=36$
 $(\log_{2}(2-x)=0)$
 $(\log_{2}1=0)$
 $(\log_{2}1=0)$
 $(\log_{2}1=0)$
 $(\log_{2}1=0)$
 $(\log_{2}1=0)$

4)
$$|ogg(9+x)=|ogg(2)|$$
 $|ogg(6)=|ogg(2)|$
 $|ogg(9+x)=|ogg(2)|$ $|ogg(6)=|ogg(2)|$
 $|ogg(6)=|ogg(2)|$
 $|ogg(6)=|ogg(2)|$
 $|ogg(6)=|ogg(2)|$
 $|ogg(6)=|ogg(2)|$
 $|ogg(6)=|ogg(6)|$

6)
$$\log_{\frac{1}{4}} (9-5x) = -3$$
 $52-5x = (\frac{1}{4})^{-3}$
 $9-5x = 64$
 $-5x = 55$
 $x = -11$

8) $\log_{5} (x^{2}+4x) = \log_{5} (x^{2}+11)$
 $x^{2}+4x = x^{2}+11$
 $x^{2}-x^{2}+4y = 11$
 $y = -1$
 $y = -1$

$$\frac{7}{4} | q_{5}(5-5x) = 2 \cdot \log 2$$

$$[2 \cdot \log_{5} 2 = | \log_{5} 2^{2} = | \log_{5} 4$$

$$5 - 5x = 4$$

$$-5x = -1$$

$$x = 0.2$$

$$\log_{2}(8+1x) = | \log_{2}(8+3x) + | \log_{2}(2+6x)$$

$$\log_{2}(8+3x) \cdot 2 = | \log_{2}(6+6x)$$

$$3 + 7x = | 6+6x$$

$$x = 9$$

$$D = 4 + | 9| 2 = | 96 = | 1^{2}$$

$$D = \frac{1}{4} + 192 = 196 = 14^{\circ}$$

$$X = \frac{-2+14}{2} = 6$$

$$X_{1} = \frac{-16^{2}}{2} = -8$$

1)
$$|og_8|^2 = 4$$

 $(8x-4) \cdot |og_8|^2 = 4$
 $|og_8|^2 = |og_2|^2$
 $|og_8|^2 = |og_2|^2$

$$8x - 4 = 4 \cdot 3$$

 $8x - 4 = 12$
 $8x = 16$

X = 2