

4. Mustaqil ishlash uchun misollar

(Logarifmik tenglama va tengsizliklar)

A) Masalalar shartlari

1-masala. Tenglamani yeching:

$$\log_2(3x - 2) = 3$$

2-masala. Tenglamani yeching:

$$\log_5(x - 1) = 2$$

3-masala. Tenglamani yeching:

$$\log_3(x + 2) + \log_3(x - 1) = 1$$

4-masala. Tenglamani yeching:

$$\log_4(x) = \log_2(x - 2)$$

5-masala. Tenglamani yeching:

$$\log_2(x + 1) = \log_4(2x + 3)$$

6-masala. Tengsizlikni yeching:

$$\log_3(2x - 1) \geq 2$$

7-masala. Tengsizlikni yeching:

$$\log_{1/2}(x + 4) > 1$$

8-masala. Tengsizlikni yeching:

$$\log_2(x^2 - 4) \leq 3$$

9-masala. Tenglamani yeching:

$$\log_3(x - 2) = \log_9(3x)$$

10-masala. Tenglamani yeching:

$$\log_2(x) + \log_2(4 - x) = 1$$