

Решите неравенство

$$5^{x-2} = 5^x / 5^2 = t/25$$

$$\frac{11 - 5^{x+1}}{25^x - 5(35 \cdot 5^{x-2} - 2)} \geq 1,5.$$

$$25^x - 5(35 \cdot 5^{x-2} - 2) = 0$$

$$5^{2x} - 5(35 \cdot 5^x \cdot 5^{-2} - 2) = 0$$

$$5^{2x} - 5(35 \cdot 5^x \cdot 1/5^2 - 2) = 0$$

$$(11 - 5^{x+1}) / (25^x - 5(35 \cdot 5^{x-2} - 2)) \geq 1,5$$

$$5^x = t$$

$$(11 - 5t) / (t^2 - 5(35 \cdot t/25 - 2)) \geq 1,5$$

$$(11 - 5t) / (t^2 - 5(35 \cdot t/25 - 2)) - 1,5 \geq 0$$

$$((11-5t) - 1,5(t^2 - 5(35 \cdot t/25 - 2))) / (t^2 - 5(35 \cdot t/25 - 2)) \geq 0$$

$$((11-5t) - 1,5(t^2 - 175t/25 + 10)) / (t^2 - 5(35 \cdot t/25 - 2)) \geq 0$$

$$((11-5t) - 1,5(t^2 - 7t + 10)) / (t^2 - 5(35 \cdot t/25 - 2)) \geq 0$$

$$((11-5t) - 1,5t^2 + 10,5t - 15) / (t^2 - 5(35 \cdot t/25 - 2)) \geq 0$$

$$(11-5t - 1,5t^2 + 10,5t - 15) / (t^2 - 5(35 \cdot t/25 - 2)) \geq 0$$

$$(-1,5t^2 + 5,5t - 4) / (t^2 - 7t + 10) \geq 0$$

$$t^2 - 7t + 10 \neq 0$$

$$t \neq 5$$

$$t \neq 2$$

$$(-1,5t^2 + 5,5t - 4) / (t^2 - 7t + 10) \geq 0$$

$$(-3/2 \cdot t^2 + 11/2 \cdot t - 4) / (t^2 - 7t + 10) \geq 0$$

$$((-3t^2 + 11t - 8)/2) / (t^2 - 7t + 10) \geq 0$$

$$(-3t^2 + 11t - 8) / 2(t^2 - 7t + 10) \geq 0$$