



Уравнения. Задание 5

1. $(x + 7)^3 = 216$



$$2. \quad \frac{2}{9}x = -3\frac{7}{9}$$



$$3. \quad (4x + 3)^2 = (4x + 7)^2$$



$$4. \quad \frac{1}{3x+7} = \frac{1}{2x-14}$$



$$5. \quad \frac{1}{4x+11} = \frac{1}{3}$$



$$6. \quad \sqrt{x + 28} = 12$$



$$7. \quad \sqrt[3]{x + 3} = 5$$



$$8. \quad \sqrt{40 + 3x} = x$$



$$9. \quad 6^{x-6} = 36$$



$$10. \quad 5^{7-5x} = 125$$



$$11. 6^{1+3x} = 36^{2x}$$



$$12. \left(\frac{1}{7}\right)^{x+4} = 49$$



$$13. \log_2(x + 2) = \log_2 11$$



$$14. \log_5(7x + 23) = 4$$



$$15. \log_2(-5x - 6) = 6$$



$$16. \quad 2^{\log_4(2x+5)} = 2$$



$$17. \quad 5^{\log_{25}(2x-1)} = 3$$



$$18. \log_9 3^{5x-5} = 4$$