

Oldd meg a valós számok halmazán a következő feladatokat!

1. a, $2^{3(x-1)} = 256$ b, $\frac{5^{x+3}}{5^{3-4x}} = 125$ c, $(7^{2x-1})^3 = 343$

2. a, $7 \cdot 5^{5(2-3x)} = 175$ b, $\frac{2 \cdot 3^{4x-2}}{6} = 1$ c, $\frac{1}{2}6^x = 18$

3. a, $\frac{\sqrt[3]{2}}{4} = \frac{8}{32^x}$ b, $\frac{\sqrt[5]{9}}{27} = \frac{9}{81^{2x}}$

4. $\frac{3^{x^2+x}}{3^6} = 1$

5. $4^x - 5 \cdot 2^x + 4 = 0$

6. a, $3^{2(x-1)} = 243$ b, $\frac{3^{x+3}}{3^{3-4x}} = 81$ c, $(5^{2x-1})^2 = 625$

7. a, $7 \cdot 3^{4(2-3x)} = 567$ b, $\frac{2 \cdot 5^{4x-2}}{10} = 1$ c, $\frac{1}{3}6^x = 12$

8. a, $\frac{\sqrt[3]{3}}{9} = \frac{27}{81^x}$ b, $\frac{\sqrt[5]{8}}{32} = \frac{16}{128^{2x}}$

9. $\frac{5^{x^2-x}}{5^6} = 1$

10. $9^x - 5 \cdot 3^x + 4 = 0$