

$$3^x = 81$$

$$x^5 = 50$$

$$3^x = 43$$

$$5^{2x} - 5^x - 6 = 0$$

$$5^x + 4^x = 8$$

$$5^x + 2 \times 5^{1-x} = 7$$

$$3^{2x} - 3 = 24$$

$$2^{2x} - 9 \times 2^x + 8 = 0$$

$$\sqrt{2x - 3} = 5$$

$$5^x - x^5 = 3$$

$$16^{\frac{3}{x}} = 8$$

$$\left(\frac{13}{16}\right)^{3x} = \frac{3}{4}$$