

**3.8**

1)  $2^x = 100$

$$x = \log_2(100) = \frac{\log(100)}{\log(2)} \approx 6,64$$

$$S = \{6,64\}$$

2)  $10^x = 5$

$$x = \log(5) \approx 0,7$$

$$S = \{0,7\}$$

3)  $12^x = 149$

$$x = \log_{12}(149) = \frac{\log(149)}{\log(12)} \approx 2,01$$

$$S = \{2,01\}$$

4)  $10^{3x} = 14,87$

$$3x = \log(14,87)$$

$$x = \frac{1}{3} \log(14,87) \approx 0,39$$

$$S = \{0,39\}$$

5)  $10^x = 43,215$

$$x = \log(43,215) \approx 1,64$$

$$S = \{1,64\}$$

6)  $3^x = 5$

$$x = \log_3(5) = \frac{\log(5)}{\log(3)} \approx 1,46$$

$$S = \{1,46\}$$

7)  $145^x = 3451$

$$x = \log_{145}(3451) = \frac{\log(3451)}{\log(145)} \approx 1,64$$

8)  $0,421^x = 73,55$

$$x = \log_{0,421}(73,55) = \frac{\log(73,55)}{\log(0,421)} \approx -4,97$$

$$S = \{-4,97\}$$