

$$\log_b 22 = 10$$

$$b^{10} = 22$$

$$b = 22^{1/10}$$

$$e^x = 14$$

$$\ln 14 = x$$

$$20^x = 8$$

$$\frac{\log 8}{\log 20} = x$$

$$5x+3 = \ln 700$$

$$e^{5x+3} = 700$$

$$5x+3 = 6.55$$

$$2^x = 8$$

$$\frac{\log 8}{\log 2} = x$$

$$\ln 14 = \frac{\log 14}{\log e}$$

$$10^x = 1000$$

$$\log 1000 = x$$

$$\log 10 = 1$$

$$e^x = 14$$

$$\ln 14 = x$$

$$10^1 = 10$$

$$\ln(x+3) = 27$$

$$x+3 = e^{27}$$

$$x = e^{27} - 3$$