

HW: 4.6 # 29

4.6

29.) $1.2^x = (0.5)^{-x}$

$$\ln 1.2^x = \ln (0.5)^{-x}$$

$$x \ln 1.2 = -x \ln 0.5$$

$$x \ln 1.2 + x \ln 0.5 = 0$$

$$x(\ln 1.2 + \ln 0.5) = 0$$

$$\frac{\ln 1.2 + \ln 0.5}{\ln 1.2 + \ln 0.5}$$

$$x = 0$$

Check

$$1.2^{(0)} = (0.5)^{-(0)}$$

$$1 = 1 \checkmark$$