

C12 - 8.6 - Log Both Sides HW

Solve for x

$$4 = 2^x$$

$$12 = 2^x$$

$$99 = 10^x$$

$$38 = 6^x$$

$$4 = 3^x$$

$$14 = 2^x$$

$$267 = 10^x$$

$$0.2 = 6^x$$

$$5 = 4^x$$

$$30 = 5^x$$

$$27 = 5^x$$

$$9^x = 76$$

$$7 = 2^{2x}$$

$$80 = 3^{2x}$$

$$1080 = 2^{5x}$$

$$180 = 5^{\frac{x}{2}}$$

$$5 = 2^{\frac{1}{x}}$$

$$\frac{2}{7^x} = 9$$

$$18 = 2^{\frac{3}{x+1}}$$

$$40 = 5(3)^x$$

$$60 = 3(2)^x$$

C12 - 8.6 - Log Both Sides HW

$$4^{x+1} = 12$$

$$25 = 3^{x-2}$$

$$126 = 3^{x+1}$$

$$80 = 2^{3x-1}$$

$$2^{3-x} = 5^{x-2}$$

$$2^{2x-3} = 8^{x-1}$$

$$3^{2x+1} = 5^{x+1}$$

$$120 = 6(2)^{x+1}$$

$$80 = 4(2)^{3x-1}$$

$$25 = 4(3)^x$$

$$62 = 5(3)^{2x-1}$$

C12 - 8.6 - Rule 7 $b^{\log_b x} = x$ Log HW

$$2^{\log_2 5} = x$$

$$3^{\log_3 8} = x$$

$$2^{2\log_4 6} = x$$

$$3^{2\log_3 4} = x$$

$$4^{\log_2 6} = x$$

$$2^{\log_4 32} = x$$

$$2^{\log x} = \frac{1}{4}$$

$$2^{-\log x} = 8$$

$$3^{\log 2x} = \frac{1}{27}$$