

# Quiz Review Help

$$1.) -4 \cdot 8^{m+8.2} - 6.1 = -102$$

$$+ 6.1 + 6.1$$

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$$-4 \cdot 8^{m+8.2} = -95.9$$


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$$\frac{-4}{-4} \quad \frac{-95.9}{-4}$$

$$8^{m+8.2} = 23.975$$

$$m+8.2 = \log_8 23.975$$

$$= \frac{\log 23.975}{\log 8}$$

$$m+8.2 = 1.53$$

$$\frac{-8.2 \quad -8.2}{-8.2 \quad -8.2}$$

$$m = -6.67$$

$$7.) \log(x+9) + \log(4) = 1$$

$$\log_{10}(4 \cdot x + 4 \cdot 9) = 1$$

$$4x + 36 = 10^1$$

$$\frac{-36 \quad -36}{-36 \quad -36}$$

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$$\frac{4x}{4} = \frac{-26}{4}$$

$$x = -6.5$$

$$9.) \log_{10}(x+10) - \log(3) = 1$$

$$\log_{10}\left(\frac{x+10}{3}\right) = 1$$

$$3. \frac{x+10}{3} = 10^1 \cdot 3$$

$$x+10 = 30$$

$$\frac{-10 \quad -10}{-10 \quad -10}$$

$$x = 20$$