

SM3H - Tuesday

— separate assn.

Officially, your Units 1-3 Review is due today; however, we can take today to go over questions and you can turn it in next class before you take the final.

*Make sure your Modules 6 & 7 Homework is finished. I will come around and check it one more time today.

*We are working on our Final Study Guide today, so get that out.

17, b

$$\textcircled{6} \quad y = \log_4 x + 9$$

$$x = \log_4 y + 9$$

$$4^{(x-9)} = \log_4 y \quad \rightarrow \quad 4^{x-9} = y$$

$$4^{x-9} = y$$

$$4^{x-9} = f^{-1}(x)$$

$$x-4 > 0 \\ x > 4$$

$$\textcircled{17} \quad \log 9 - \log(x-4) = \log 7$$

$$\log\left(\frac{9}{x-4}\right) = \log 7$$

$$\frac{9}{x-4} = 7(x-4)$$

$$9 = 7x - 28$$

$$\frac{37}{7} = \frac{7x}{7}$$

$$x = \frac{37}{7}$$

