1/30/13 Log test Review 1

① If $\log_{10}(x) = -5$, what is x?

② what is the solution of $3^x = 19$?

③ What is the value of $\log_5(125)$?

④ Find an equation that models the growth of the bacteria modeled in the table below.

Day	Bacteria
0	30
1	60
2	120

⑤ Use the Base change formula to write in log base 10 form:
$\log_7(83) =$

⑥ What is x? $\log_2\left(\frac{1}{8}\right) = x$

⑦ Solve for x:
$3^{2x} = 19$

⑧ Solve for x:
$\log(x+1) + \log(x) = \log(20)$

⑨ Simplify $\log_4\left(\frac{1}{64}\right)$

⑩ Solve for x if
$\log_x(3) + \log_x(8) = 4$