Logarithms quiz

① Write $2^3 = 8$ in log form.

② Write $\log_4 16 = 2$ in index form.

③ Simplify $\log_3 4 + \log_3 8 =$

④ Simplify $\log_5 4 - \log_5 2 =$

⑤ Simplify $3\log_5 2 + \log_5 3 =$

⑥ $\log_3 27 = 2x$
  Solve for x

⑦ $2^x = 100$, solve for x