

Homework - CHEM 100 Section 2

1. (12 pts) Determine the following WITHOUT using a calculator

$$\log(2) = 0.301$$

$$\log(4) = 0.602$$

a. $\log(2 \times 10^6)$

b. $\log(2 \times 10^{-6})$

c. $-\log(2 \times 10^{-6})$

d. $\log(4 \times 10^7)$

e. $\log(4 \times 10^{-7})$

f. $-\log(4 \times 10^{-7})$

2. (4 pts) What is the pH of a solution that has a $[H^+]$ of 1×10^{-2} M ?

3. (4 pts) What is the pH of a solution that has a $[OH^-]$ of 1×10^{-8} M ?