

Pre Calc BC**Common Logs****Name:**

1. ESTIMATE log values for the following. Then check.

- a) $\log 101$ b) $\log 5000$ c) $\log 0.5$ d) $\log(1/300)$ e) $\log(-20)$

USE A LOG TABLE FOR THE FOLLOWING PROBLEMS. YOUR CALCULATOR MAY ONLY BE USED FOR BASIC ARITHMETIC (and to check answers when done).

2. Evaluate the following logs:

- a) $\log(24)$ b) $\log(0.24)$ c) $\log(1/24)$ d) $\log(24,000)$

3. Convert the following logs into numbers

- a) 1.6990 b) 4.6990 c) -.6990 d) .3010

4. Perform the following calculations by adding or subtracting logs and converting back.

- a) 230×710 b) $8400 \div 29$ c) $75 \times 3600 \div .0014$

5. Perform the following calculations by multiplying or dividing logs and converting back.

- a) 7.3^{42} b) $\sqrt{2}$ c) $\sqrt[5]{3700}$