**Express as a single logarithm and, if possible, simplify.**10 logc 3 + 7 logc 2

**Express as a difference of logarithms.**log 7/10

4

**Express as a difference of logarithms.**log 11/16

8

**Using a calculator, evaluate to four decimal places.**ln 0.999

**Express as a single logarithm and, if possible, simplify.**10 logc 3 + 7 logc 2

**Solve for x exactly without using a calculator**

ln(*x* + 14) – ln(*x*) = 3ln(2)