Practice for 3.4 Solving equations

The following problems will help you practice the material you learned today. Once you are finished check your solutions. Once done, you can work on your WeBWorK homework.

1. Solve for x (exact answer, no calculator).

$$2^x = 15 \qquad\qquad x^4 = 12$$

$$\log_5 x = -3 \qquad \ln(2x) = -5$$

2. Solve for x (exact answer, no calculator.)

ln (x+1) + ln x = 2

$$e^{2x-1} = 5$$

3. If you invest $5,000 in an account which pays 3.2%, how long will it take to triple your money?

4. If the half-life of an isotope is 5715, how many years will it take for 10 g to dissipate to 1 g?