Solve each logarithmic equation for x. Show all work. Round to the nearest hundredth if necessary.

- 1) $\log_{x+1} 361 = 2$
- 2) $\log_{2.8} 12 = x 4$
- 3) ln(4x 3) = 5.7

Progress Check: Solving Logarithmic Equations (B17-B18)

Name:

Solve each logarithmic equation for x. Show all work. Round to the nearest hundredth if necessary.

1)
$$\log_{x+1} 361 = 2$$

2)
$$\log_{2.8} 12 = x - 4$$

3)
$$ln(4x - 3) = 5.7$$