

Name \_\_\_\_\_ Period \_\_\_\_\_

**Section 6-7**

Solve the equation for  $x$ . Write the exact solution and the approximate solution to the nearest hundredth, when appropriate.

1.  $8^{5x+3} = 4$

[1] \_\_\_\_\_

2.  $9^{4x-8} = 27$

[2] \_\_\_\_\_

3.  $9^{6x-5} = 27$

[3] \_\_\_\_\_

4.  $\ln e^{6x} = 9$

[4] \_\_\_\_\_

5.  $\ln x^3 = 15$

[5] \_\_\_\_\_

6.  $\ln 3x = 3$

[6] \_\_\_\_\_