## **Practice**

Form G

7-6B

Natural Logarithms

Write each expression as a single natural logarithm.

**4.** 
$$\ln z - 3 \ln x$$

**6.** 
$$4 \ln x + 3 \ln y$$

8. 
$$3 \ln a - b \ln 2$$

Solve each equation. Check your answers. Round your answer to the nearest hundredth.

**19.** 
$$\ln e^x = 3$$

**20.** 3 ln 
$$e^{2x} = 12$$

**21.** 
$$\ln e^{x+5} = 17$$

**25.** 
$$\ln(3x + 4) = 5$$

Use natural logarithms to solve each equation. Round your answer to the nearest hundredth.

**40.** 
$$e^{2x} = 25$$

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