Evaluate:

1.
$$e^{lny}$$

2.
$$lne^{-4x}$$

3.
$$lne^{45}$$

Solve each equation.

4.
$$3e^x + 1 = 10$$

5.
$$ln(3x) = 5$$

6.
$$2e^x - 16 = 0$$

7.
$$ln(x + 1) = 9$$

8.
$$-3e^{4x} + 11 = 2$$
 9. $lnx + ln3x = 12$

$$9. \ln x + \ln 3x = 12$$

10.
$$\ln(x^2 + 12) = \ln x + \ln 8$$
 11. $8 + 3e^{3x} = 26$

11.
$$8 + 3e^{3x} = 26$$

12.
$$lnx + ln(x + 4) = ln5$$

| 13. If you deposit \$150 in a savings account paying 4% interest compounded continuously, how much money will you have after 5 years? How long would it take you to double your money? | 2y |
|--|-------------|
| 14. If you deposit \$100 in an account paying 3.5% interest compounded continuously, how much money wing you have after 8 years? How long will it take for you to have \$250 in the account? | i II |
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