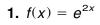
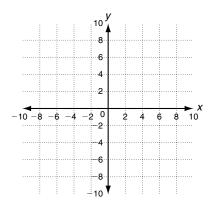
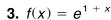
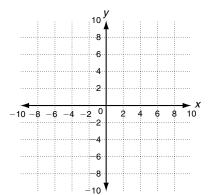
LESSON Practice B 7-6 The Natural Base, e

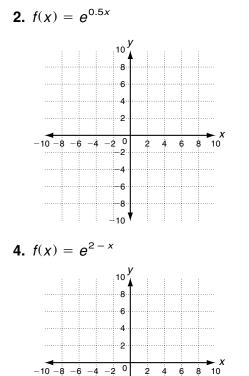
Graph.











-2

-4 -6

-8

10

Simplify.



8. $\ln e^{3x+1}$

9. In e

6. $e^{\ln 2x}$

10. In $e^{2x + y}$

7. e^{7ln x}

Solve.

- **11.** Use the formula $A = Pe^{rt}$ to compute the total amount for an investment of \$4500 at 5% interest compounded continuously for 6 years.
- **12.** Use the natural decay function, $N(t) = N_0 e^{-kt}$, to find the decay constant for a substance that has a half-life of 1000 years.