- 1- Which of the following are exponential functions:
- **a.** $f(x) = -9(3^x)$.
- **b.** $f(x) = 8x^4$.
- **c.** $f(x) = 2^{-x}$.
- **2-** Evaluate $f(x) = 4(2^x)$ at x = 3 and x = -2.
- **3-** Graph the function $f(x) = 3^x$ and $g(x) = 3^{x-1} 3$. Find the *x*-intercept for each function.
- 4- Find the exponential function of the form $f(x) = a^x$ that passes through (2,49).
- 5- Solve the exponential equations:
- **a.** $4^x = 8^{-2}$.
- **b.** $9^{4x-3} = 27^{3x-5}$.
- **c.** $4^{x-1} = 1$.