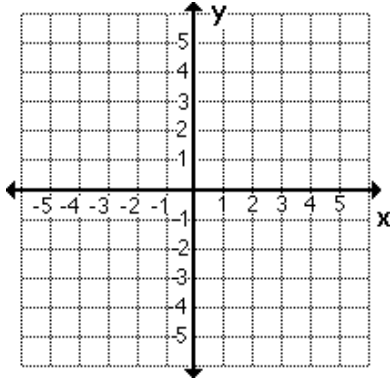


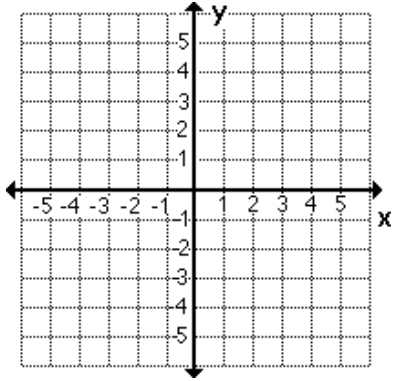
UNIT 5 WORKSHEET 6
Exponential Growth and Decay

Sketch the graph each of the following functions. Label the key point of each function.
Determine the Range and Domain of each.

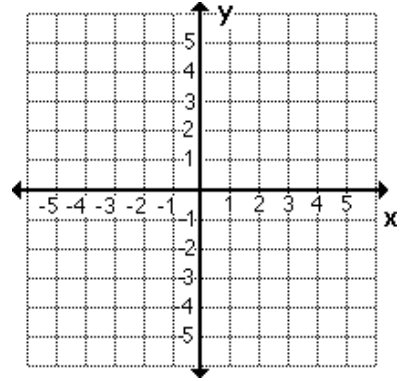
1. $f(x) = 2^{x+1}$



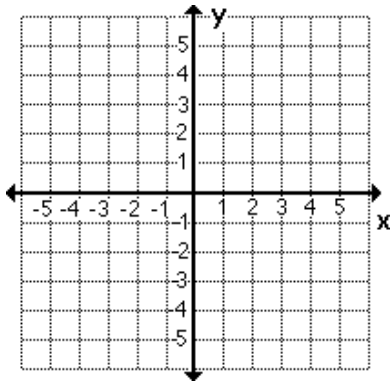
2. $f(x) = 3^{x-4}$



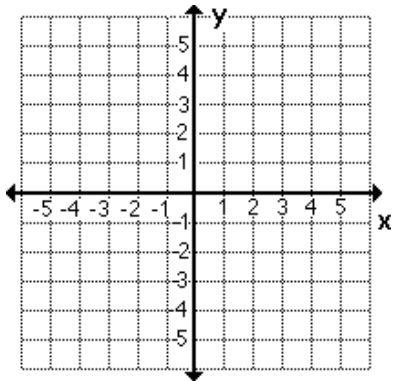
3. $f(x) = -3^x$



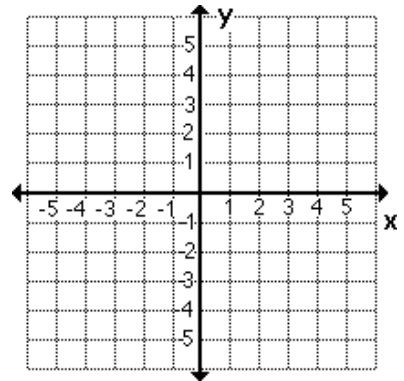
4. $f(x) = \left(\frac{1}{2}\right)^{x+2}$



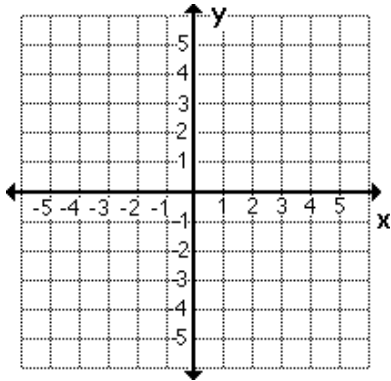
5. $f(x) = 2^{-x}$



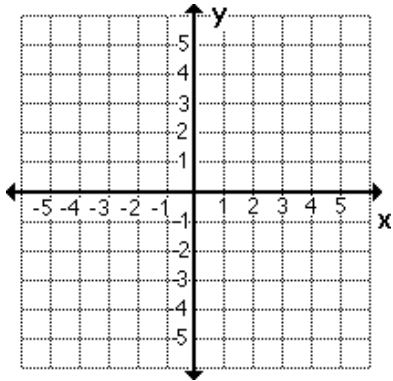
6. $f(x) = \left(\frac{3}{2}\right)^{x-1}$



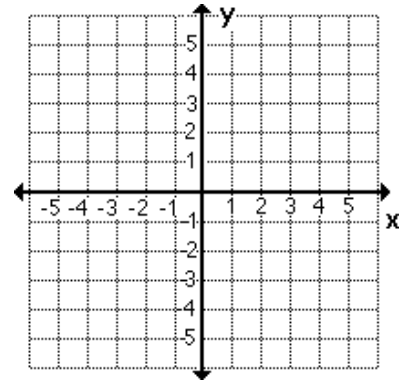
7. $f(x) = 3\left(\frac{1}{4}\right)^{-x} + 1$



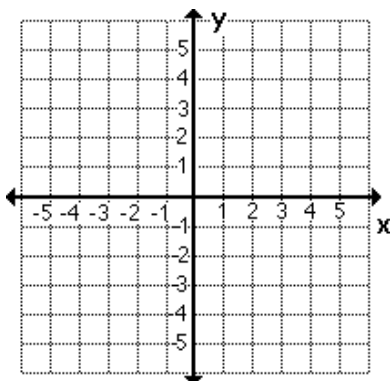
8. $f(x) = 2^{x-2} + 3$



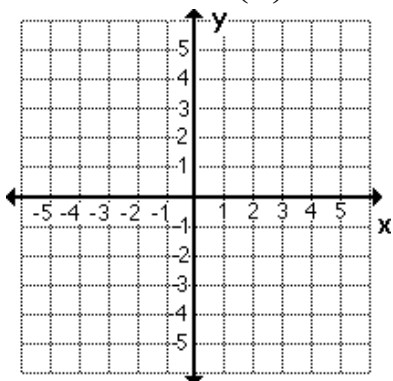
9. $f(x) = -2^{x+3} - 4$



10. $f(x) = 2(3)^{x-2} - 3$



11. $f(x) = \left(\frac{2}{3}\right)^{-x}$



12. $f(x) = 2^{x+2} + 1$

