

Exponential Functions and their Graphs

EXAMPLE 5 Transformations of Graphs of Exponential Functions

Each of the following graphs is a transformation of the graph of $f(x) = 3^x$.

- Because $g(x) = 3^{x+1} = f(x+1)$, the graph of g can be obtained by shifting the graph of f one unit to the *left*, as shown in Figure 3.3.
- Because $h(x) = 3^x - 2 = f(x) - 2$, the graph of h can be obtained by shifting the graph of f down two units, as shown in Figure 3.4.
- Because $k(x) = -3^x = -f(x)$, the graph of k can be obtained by *reflecting* the graph of f in the x -axis, as shown in Figure 3.5.
- Because $j(x) = 3^{-x} = f(-x)$, the graph of j can be obtained by *reflecting* the graph of f in the y -axis, as shown in Figure 3.6.



Figure 3.3 Horizontal shift



Figure 3.4 Vertical shift



Figure 3.5 Reflection in x -axis



Figure 3.6 Reflection in y -axis

4 1 Exponential Functions And Their Graphs

Cynthia Y. Young



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