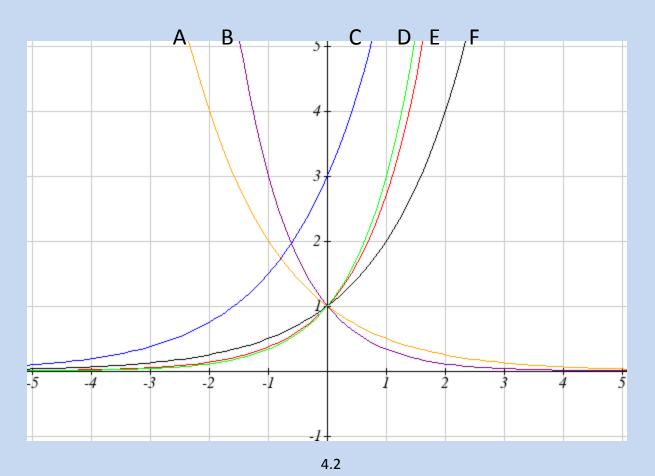
Warm up: Review of Function Transformation

Important Topics of this Section

Graphs of exponential functions
Intercept
Growth factor
Exponential Growth
Exponential Decay
Horizontal intercepts
Long run behavior
Transformations

Match the functions below to the graph.

$$2^{x}$$
, $3(2)^{x}$, 3^{x} , e^{x} , $\left(\frac{1}{2}\right)^{x}$, $\left(\frac{1}{3}\right)^{x}$



Transformations of Exponentials

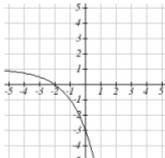
Any transformed exponential can be written in the form

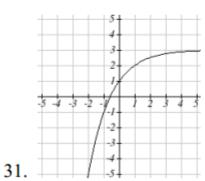
$$f(x) = ab^x + c$$

where

y = c is the horizontal asymptote.

Find a formula for each function graphed as a transformation of $f(x) = 2^x$.





Write an equation for the following graph.

