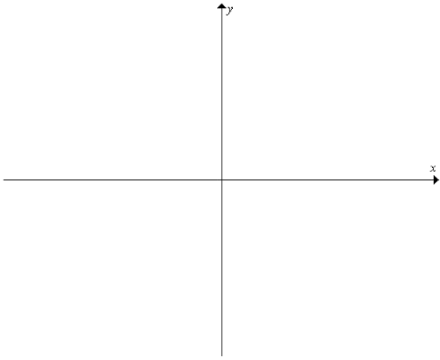


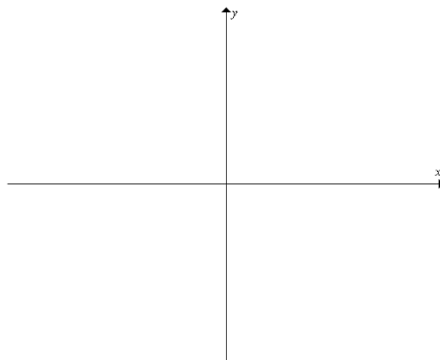
Sketching Exponential Functions

Show asymptotes as dotted lines and label at least one point with an ordered pair.

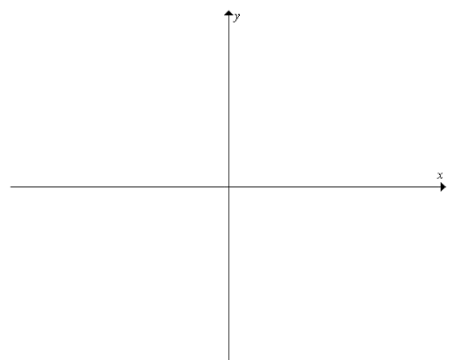
[1] $y = 2^{x-2}$



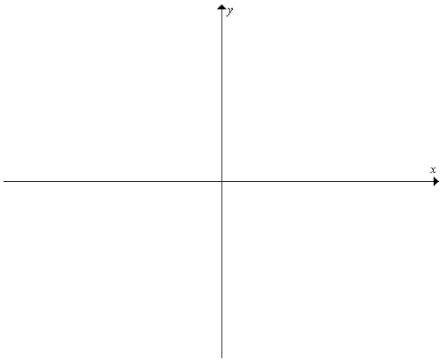
[2] $y = 1 - e^x$



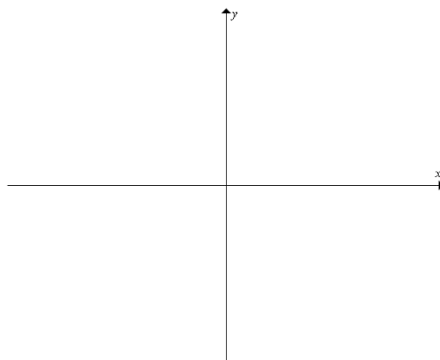
[3] $y = 10^x - 3$



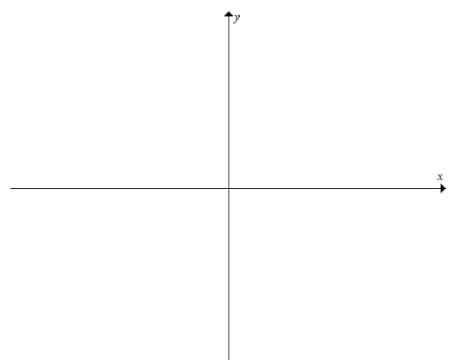
[4] $y = 2 + e^{x+3}$



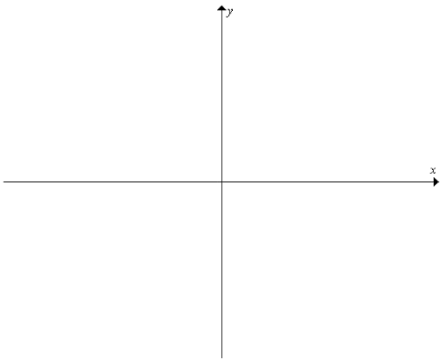
[5] $y = 5^x + 4$



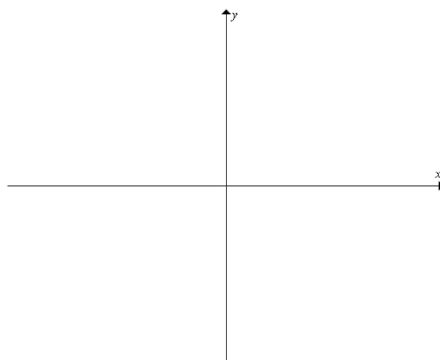
[6] $y = -e^x$



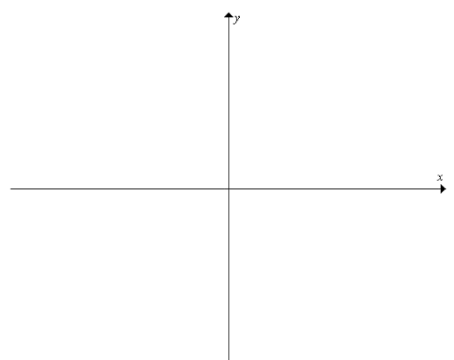
[7] $y = e^{-x} + 1$



[8] $y = 2^{1-x}$



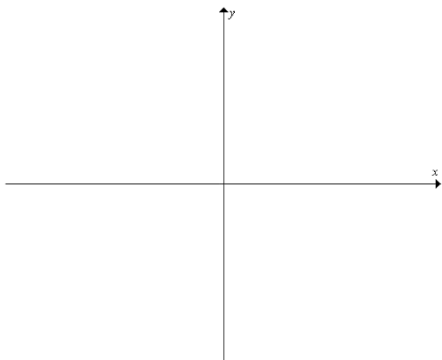
[9] $y = 3 - 2^{-1-x}$



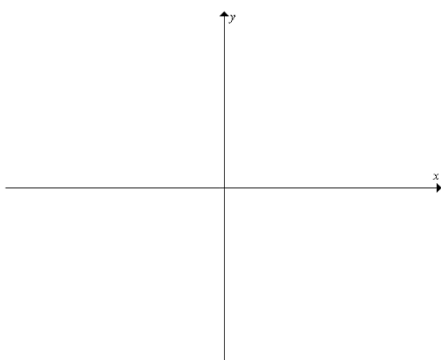
Sketching Logarithmic Functions

Show asymptotes as dotted lines and label at least one point with an ordered pair.

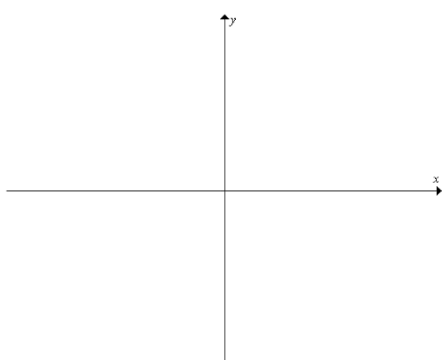
[1] $y = \log_2 x$



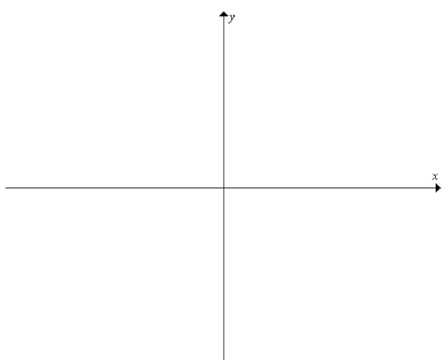
[2] $y = 1 + \log_4 x$



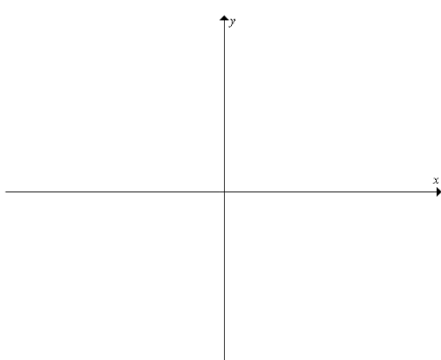
[3] $y = 3 - \ln x$



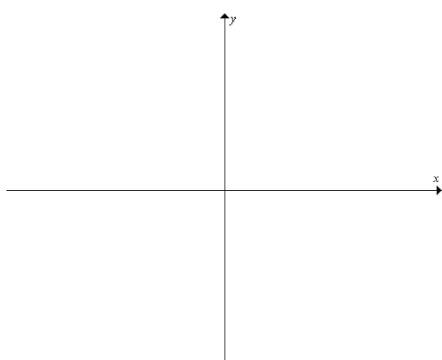
[4] $y = \ln(x-2)$



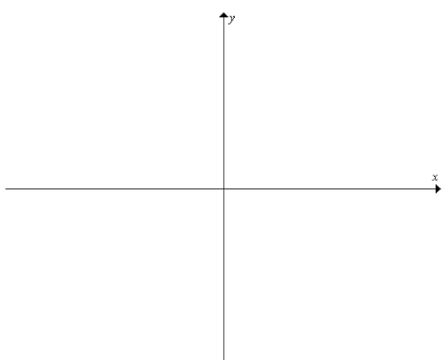
[5] $y = 1 + \ln(x-3)$



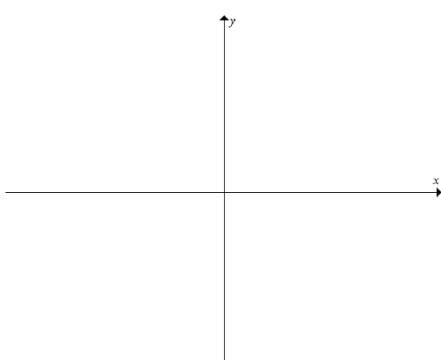
[6] $y = 4 - \log_{10} x$



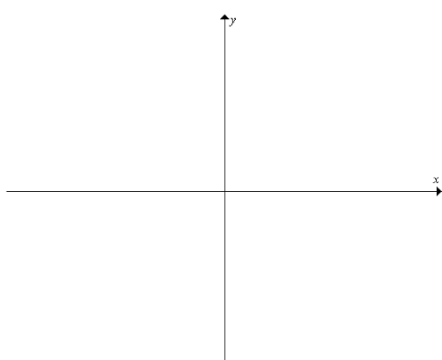
[7] $y = -1 + \ln(x-5)$



[8] $y = \log_5(-x)$



[9] $y = -\ln(-x)$



[10] Find the domain of the following functions.

[a] $y = \ln(x+10)$

[b] $y = \ln(x^2 - 5x + 6)$

[c] $y = \log_2(2x^2 - x - 1)$

[d] $y = \ln(4-x)$

[e] $y = \ln(x^2 - 9)$

[f] $y = \log_{10}(x^3 + 1)$