

8.04 Equation Practice

Name _____

Solve for x.

$$3^x = 40$$

$$e^{2x} = 14$$

$$12 = e^{(x-2)}$$

$$7^{4x} = 500$$

$$4.2 = \log_3(x + 2) - 1$$

$$-7 = -3\log_2(2 - x) - 1$$

$$\log_6 x + \log_6 7 = \log_6 18 - \log_6 7x + \log_6 \left(\frac{1}{2}\right)$$

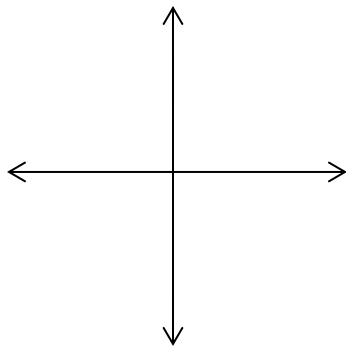
$$3 = \frac{1}{2}\ln(x - 1) + 2$$

$$5 + 2\ln x = 4$$

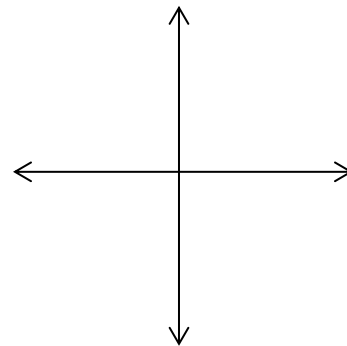
$$3\log_4 3x = 12$$

Graph the following functions by finding and plotting the asymptotes and intercepts.

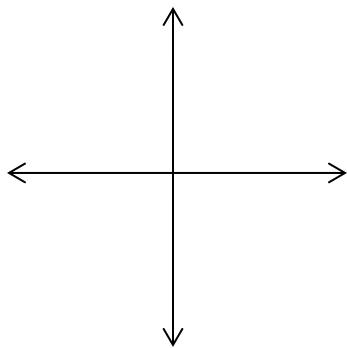
$$g(x) = \frac{9}{x-12} - 6$$



$$t(x) = \frac{-4}{x-5} + 20$$



$$f(x) = \frac{2}{(x+1)^2} - 2$$



$$h(x) = -\frac{1}{(x-1)^2} + 4$$

