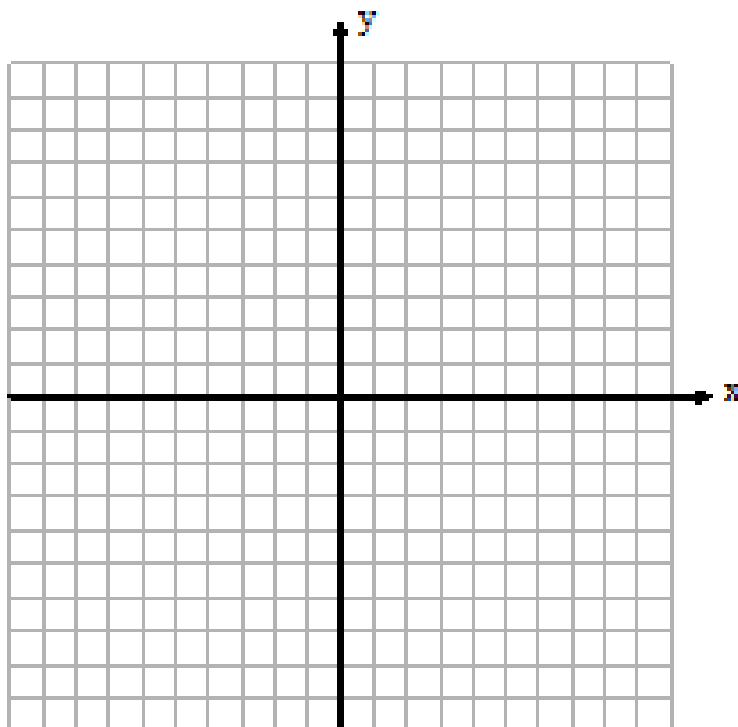


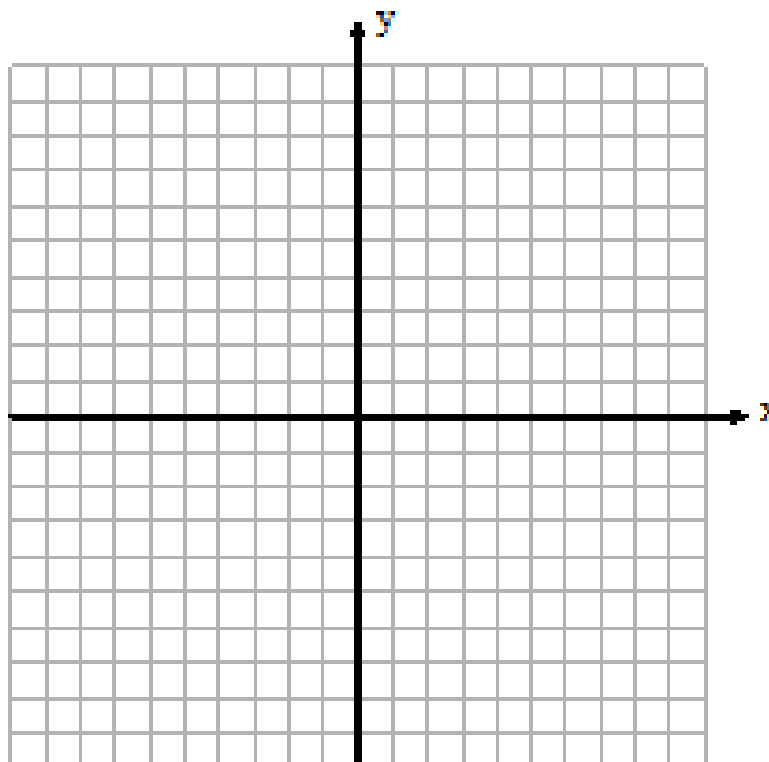
7-4 B Notes: Simplifying Logarithms for Graphing

Graph $f(x) = \log_2 \sqrt{2x+8} - 3.5$

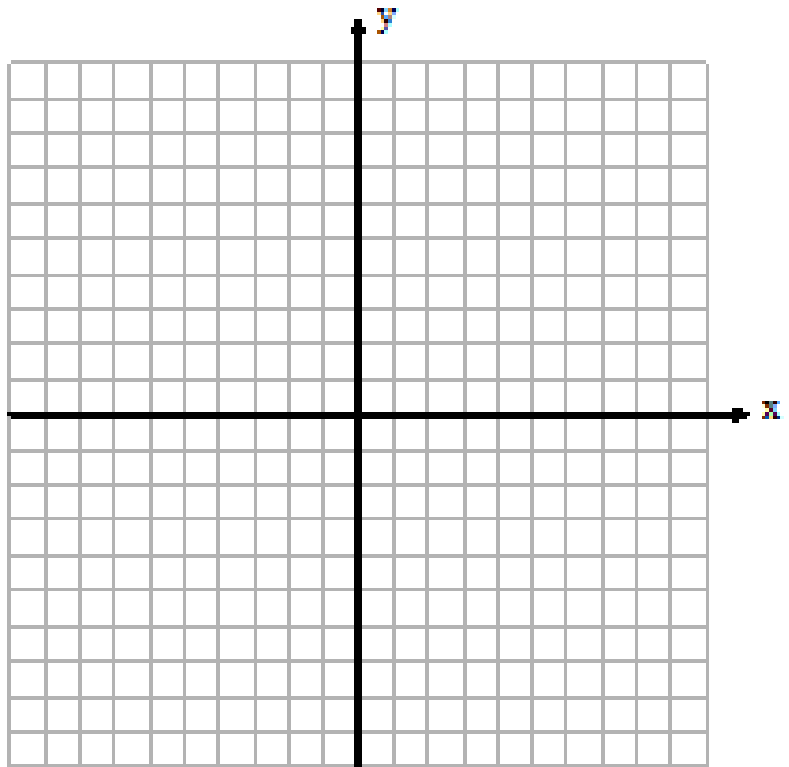


Graph each logarithmic function. **SHOW ALL WORK.**

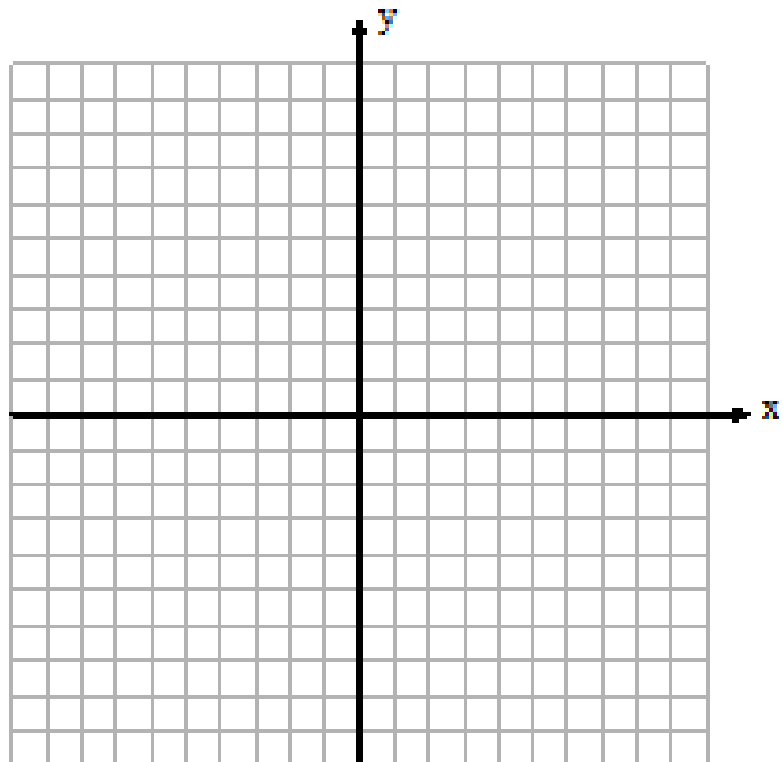
$$f(x) = \log_3 (9x + 81) - 5$$



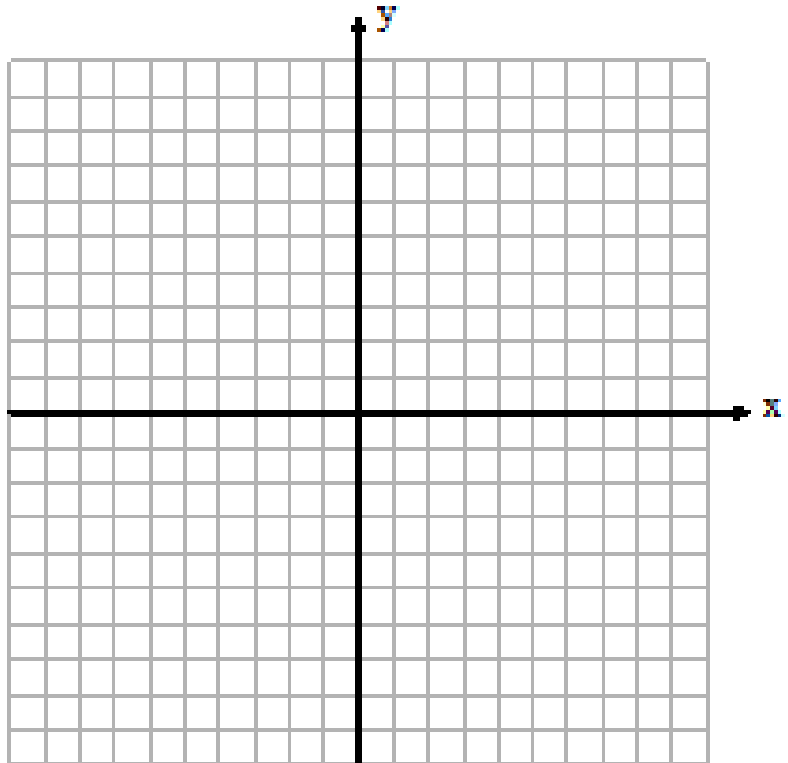
$$f(x) = \log_2(4x + 20) + 3$$



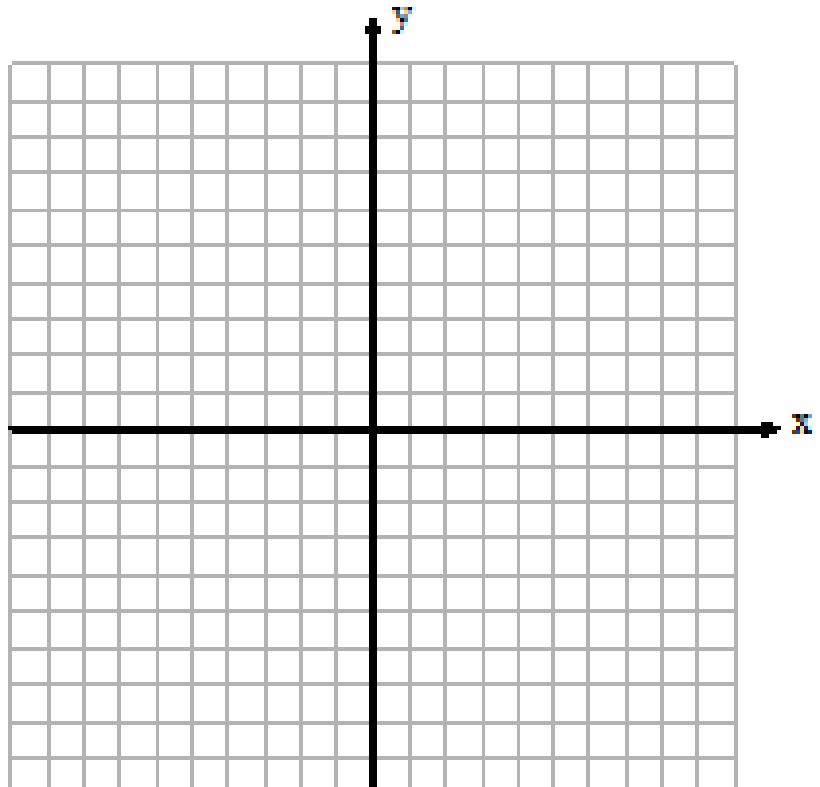
$$g(x) = 2\log_2\left(\frac{2}{x-3}\right) - 1$$



$$g(x) = -\log_4(-4x + 8) + 3$$



$$g(x) = \log_3\left(\frac{9}{-27x}\right) - 5$$



$$g(x) = -3\log_{\frac{1}{4}}(2x+2)$$

