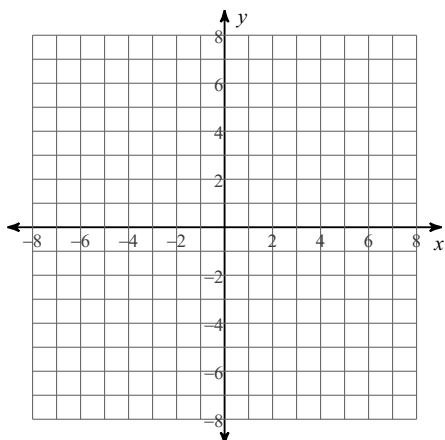


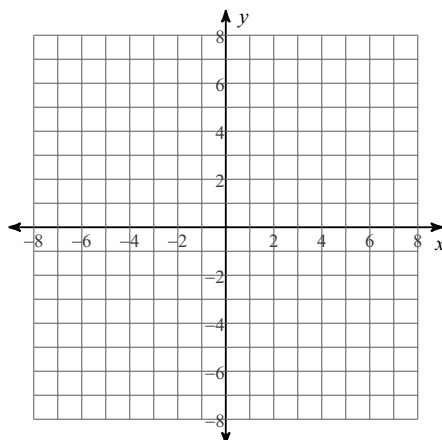
Graphing logarithmic functions practice (M3 2.3)

Sketch the graph of this function. Then state the equation of the asymptote, the domain, and the range.

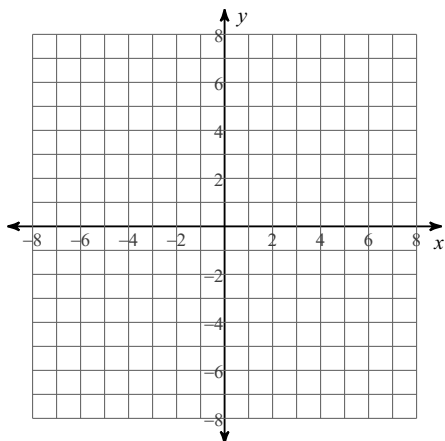
1) $f(x) = \log_3(x - 2) - 1$



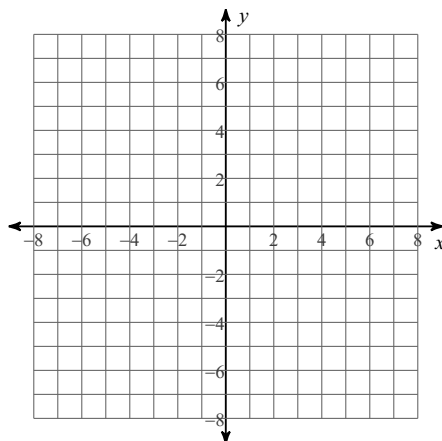
2) $f(x) = \log_4(x + 4) - 2$



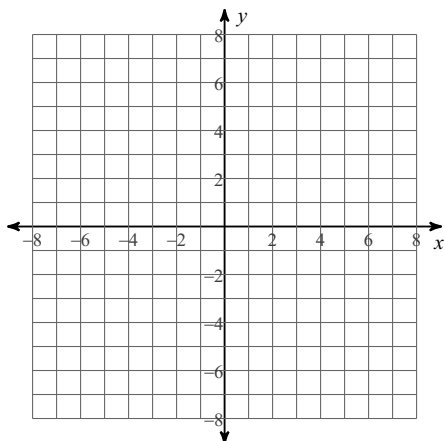
3) $f(x) = \log_6(x - 3) - 5$



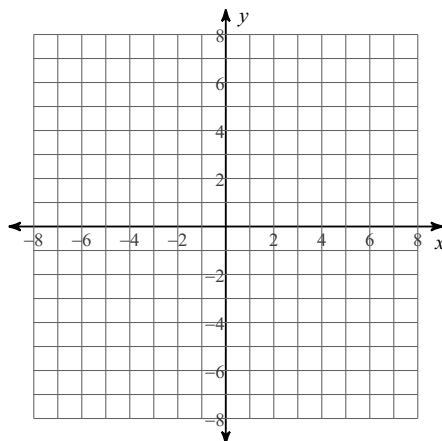
4) $f(x) = \log_5(x - 1) + 4$



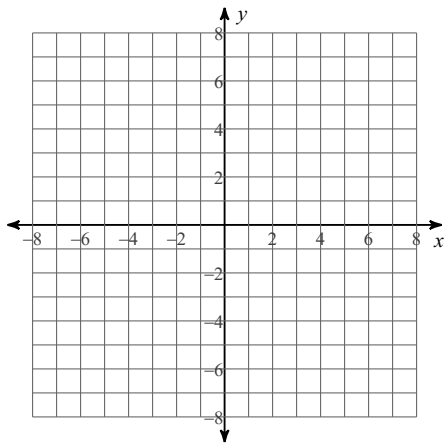
5) $f(x) = \log_3(x - 1) - 4$



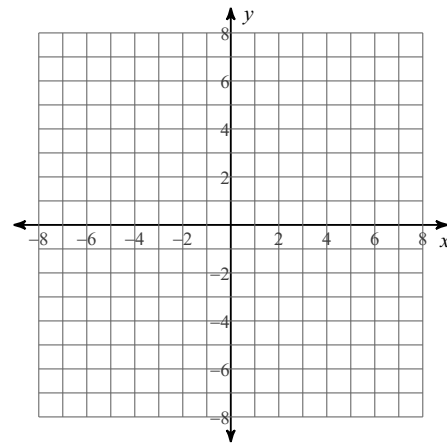
6) $f(x) = \log_5(x - 3) - 1$



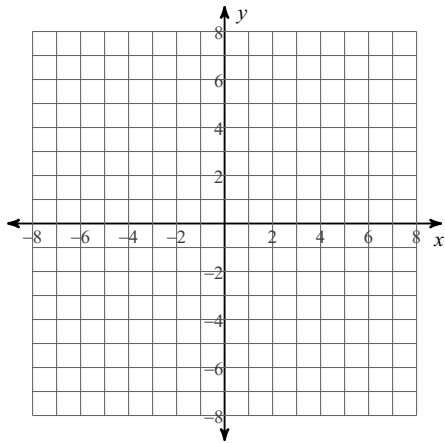
7) $f(x) = \log_3(x - 1) + 2$



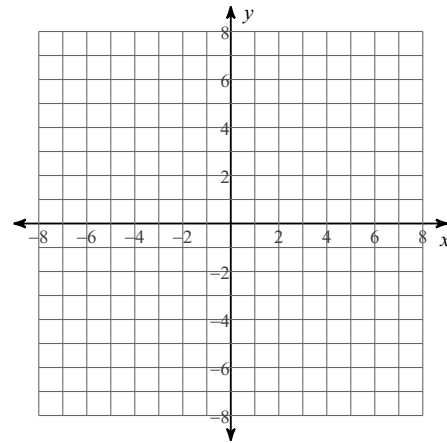
8) $f(x) = \log_3(x - 1) + 3$



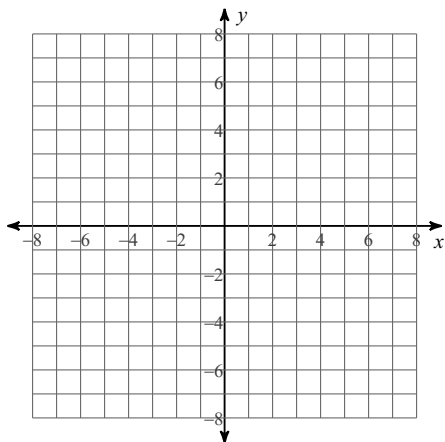
9) $f(x) = \log_5(x - 3)$



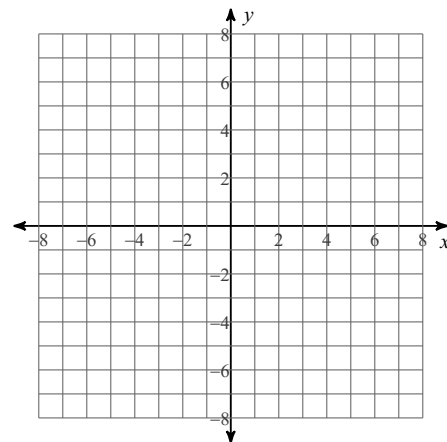
10) $f(x) = \log_2(x - 3) - 3$



11) $f(x) = \log_{\frac{1}{2}}(x - 1) + 4$

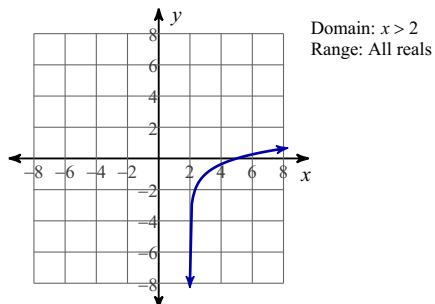


12) $f(x) = \log_{\frac{1}{5}}(x - 3) + 1$

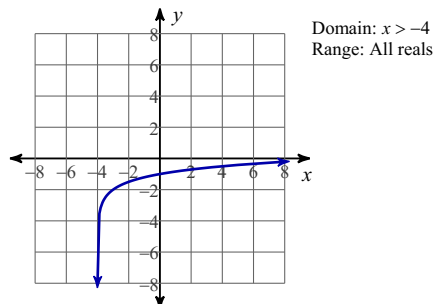


Answers to Graphing logarithmic functions practice (M3 2.3)

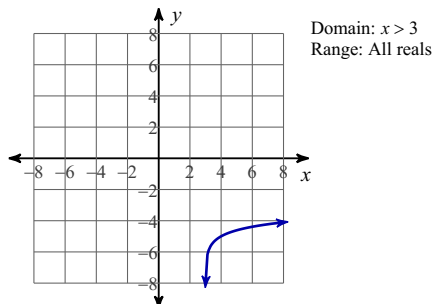
1)



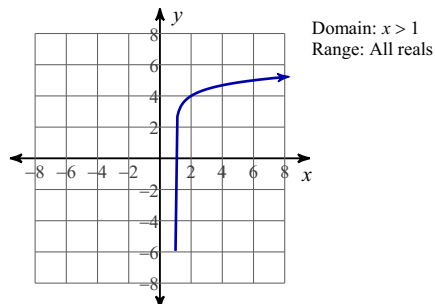
2)



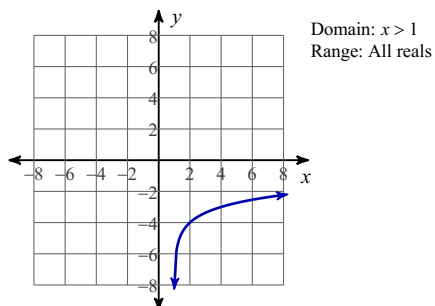
3)



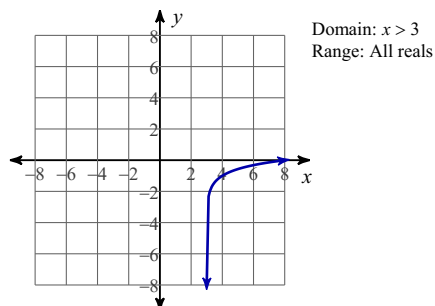
4)



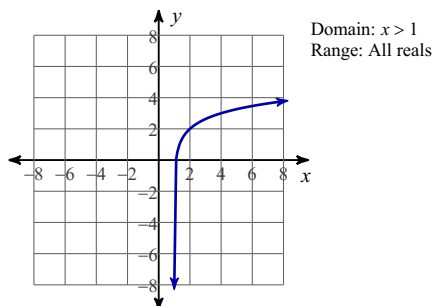
5)



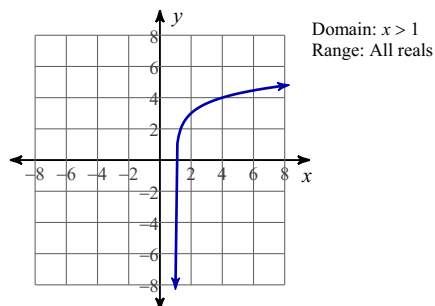
6)



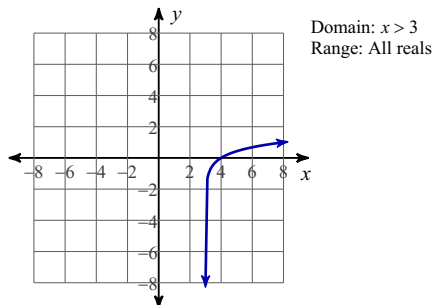
7)



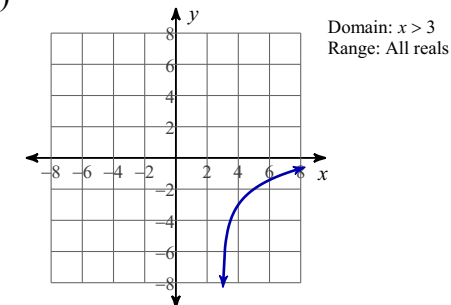
8)



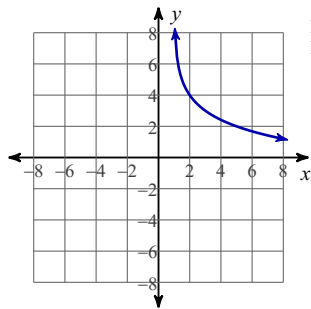
9)



10)

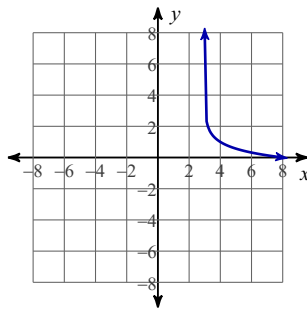


11)



Domain: $x > 1$
Range: All reals

12)



Domain: $x > 3$
Range: All reals