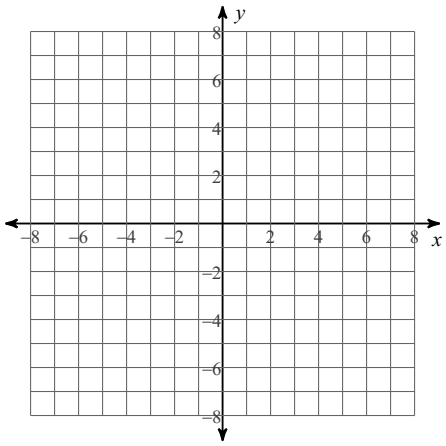
Algebra 2b Name_____

Test Review: Exponential Equations/Logarithms

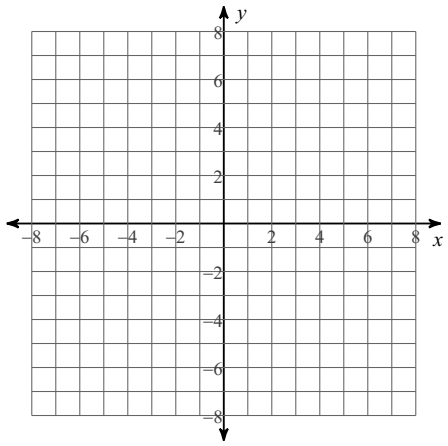
Date_____ Period____

Identify the domain, range, intercepts, vertical asymptote, and end behavior of each. Then sketch the graph.

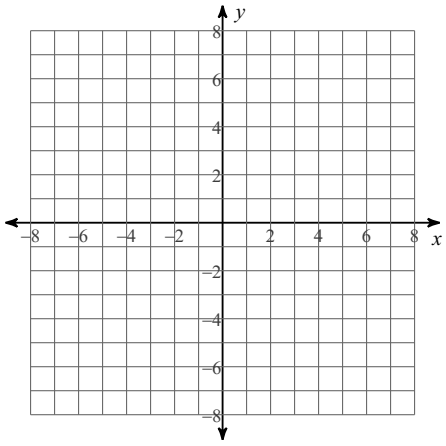
1) $y = \ln(x + 2) - 5$



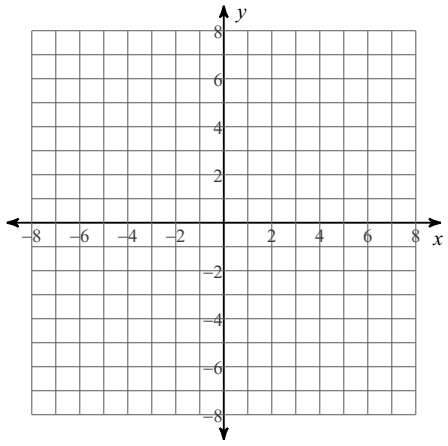
2) $y = \log(x + 2) - 2$



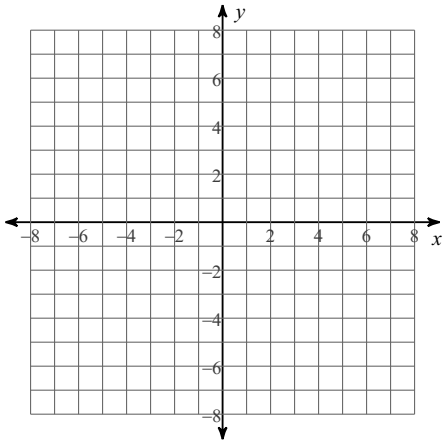
3) $y = \ln(x - 1) - 4$



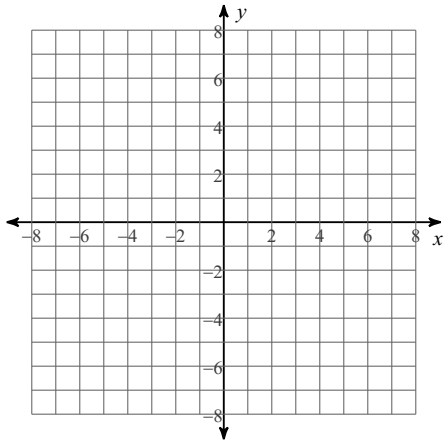
4) $y = \log(x + 1) - 5$



5) $y = \log\left(x + 5\right) - 5$



6) $y = \ln\left(x - 1\right) - 1$



7) If you deposit $4000 into an account paying 9% interest compounded monthly, how long until there is $10000 into the account?

8) If you deposit $6000 into an account at 5% compounded continuously, how long will it take for it to grow into $9000?

9) How long will it take for $7500 to double if it earns 7.5% compounded weekly?

10) How long will it take to double $2750 if its compounded continuously at 8%?