

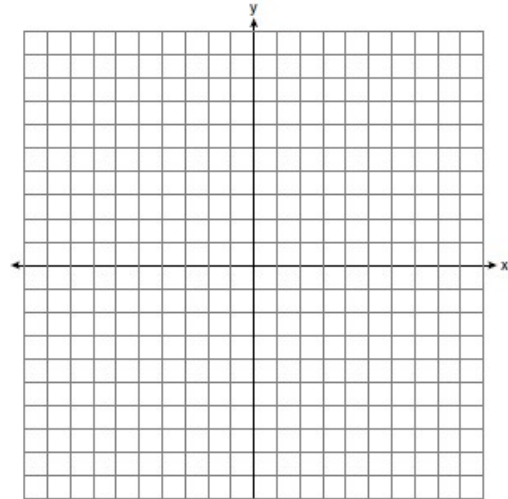
Name _____
Mr. Schlansky

Date _____
Algebra II

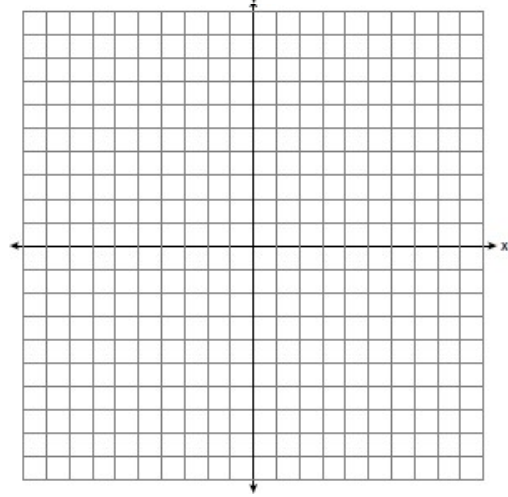
Sketching Exponential and Logarithmic Functions

For the following equations, sketch the equation using the asymptote and 1 key point, state the domain and range, state the equation of the asymptote.

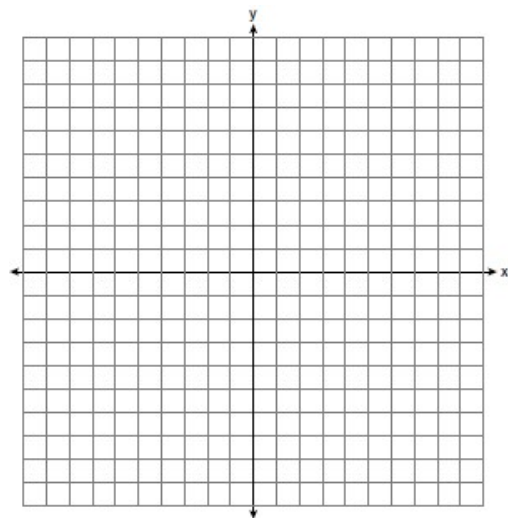
1. $y = 2^x$



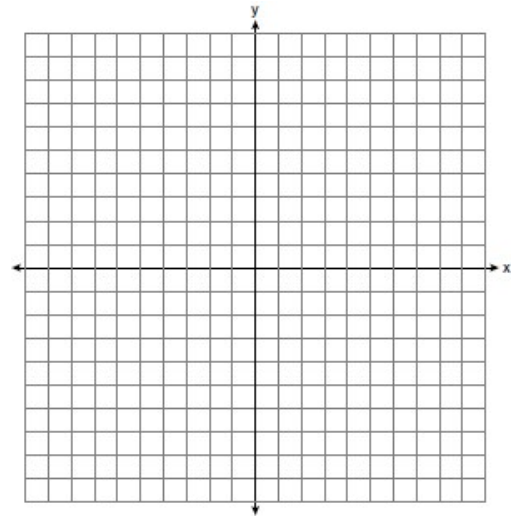
2. $y = \left(\frac{1}{2}\right)^x$



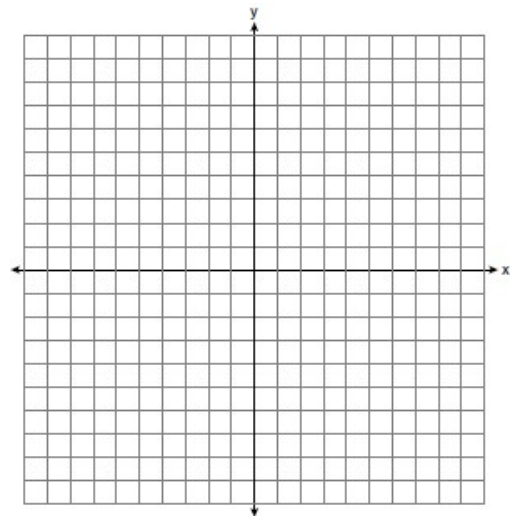
3. $y = 3^{x-2} - 4$



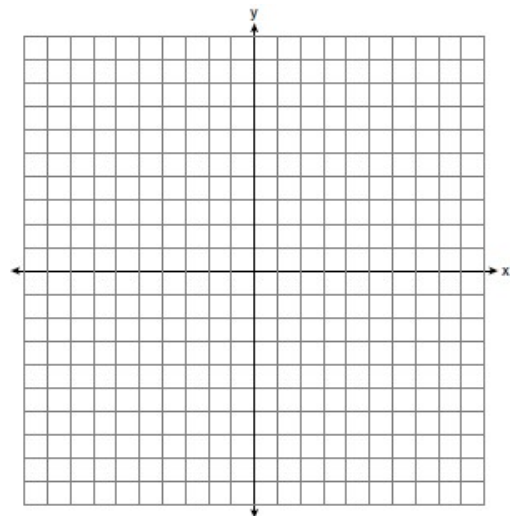
4. $y = 2^{x+1} - 3.$



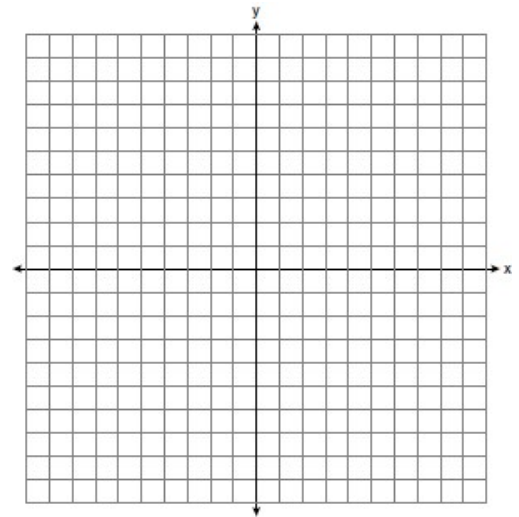
5. $y = \left(\frac{1}{3}\right)^{x-5} + 1$



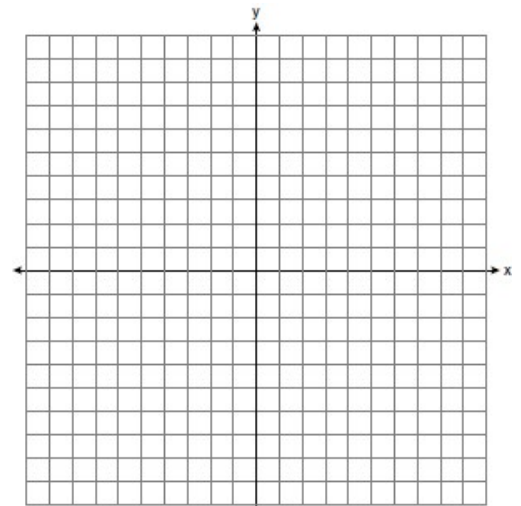
6. $y = \left(\frac{1}{2}\right)^{x+6} - 3$



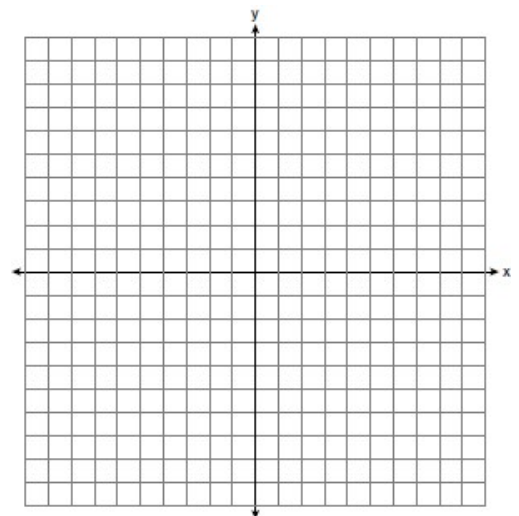
7. $y = \log_2 x$



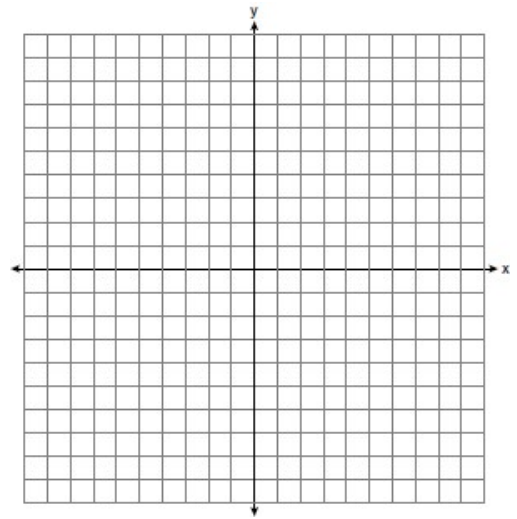
8. $y = \log_3(x+2)$



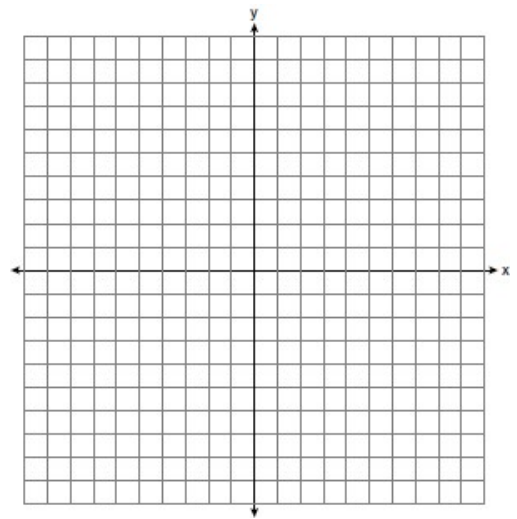
9. $y = \log_4(x) + 2$



10. $y = \log_3(x+8)$



11. $y = \log_4(x) - 8$



12. $y = \log_2(x+9) - 3$

