

Name: _____

QUIZ 10
305G 10-29-08

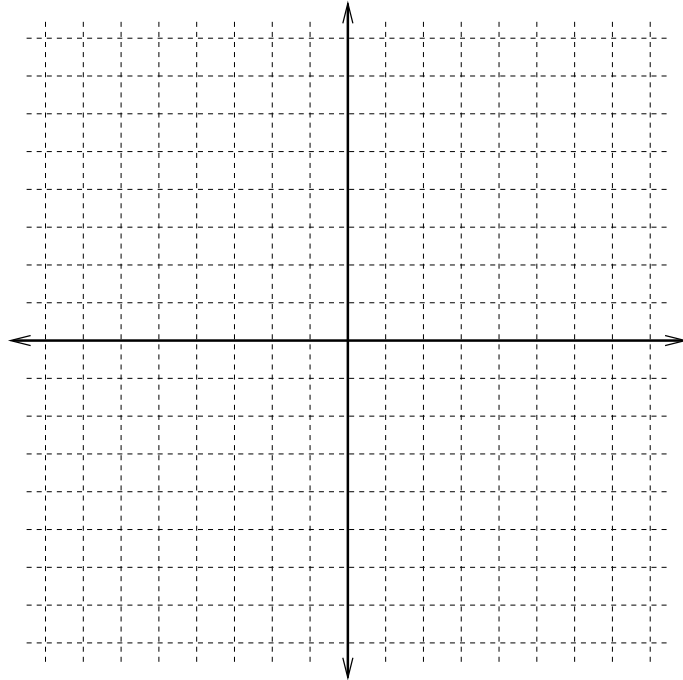
- (1) One revolution corresponds to an angle of measure _____ degrees which corresponds to an angle of measure _____ radians.
- (2) Write the expression $\log(x^2 + 3x + 2) - 2\log(x + 1)$ as a single logarithm.

- (3) Suppose $\log_8(9) = \frac{x}{\log_3(8)}$. Solve for x and simplify your answer.

(4) Consider the function $f(x) = \log_2(x + 3)$

a. Find the domain of $f(x)$.

b. Graph f . You MUST label your graph to receive full credit.



c. What is the equation for the vertical asymptote of $f(x)$?