Grade 11th. Precalculus

Quiz #1

Name: _____ .

1. Exercises

Graph the following exponential functions and describe their behavior.

a) $f(x) = 3 \cdot 5^x$　　　　　　　　　　　　b) $g(x) = -3 \cdot 5^{x-7}$ - 9

Graph the following logarithmic functions and describe their behavior.

a) $f(x) = \log_5(x)$　　　　　　　　　　　　b) $g(x) = \log_5(-x - 4) + 2$

Given that $\log_m(x) = 1$, $\log_m(y) = 4$ and $\log_m(z) = 3$, find the numerical values of

a) $\log_m(xz^4)$　　　　　　　　　　　　b) $\log_m\left(\dfrac{x^3 y^5}{z^7}\right)$

Date: thursday, april 17th