

QUIZ #3

Math 132

Name: _____

SHOW ALL WORK. Any solution that is not accompanied by the appropriate work necessary for solving the problem will receive no credit. If you need more space, you may use the back of the page.

1. Let $\log_m(x) = -3.2$, $\log_m(y) = 2.5$, and $\log_m(z) = 4.7$. Calculate the following.

(a) $\log_m\left(\frac{x^3}{y^5z^4}\right)$

(b) $\log_m\left(\sqrt[5]{\frac{z^3}{y^7}}\right)$

(c) $\log_x(y)$