

PRE-AP ALGEBRA 2

3A.4 CLASSWORK

1) Use the Power Rule to rewrite each logarithm.

a) $\log_7(x^3)$

b) $\log_4(\sqrt[5]{x^2})$

3) Calculate $\log_4 78$ by using

a) common logarithms

b) natural logarithms

2) Use the Change of Base Formula to write each expression as a single logarithm.

a)

$$\frac{\log_4 32}{\log_4 8}$$

b)

$$\frac{\log_{11} 181}{\log_{11} 13}$$