

Math 1730-016: Practice Quiz Six

March 28, 2011

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Your Name:.....

Problem 1

(i) Solve the equation

$$5^{-x} = 125.$$

(ii) Solve the equation

$$\log_2 x = 5.$$

Problem 2

Solve the exponential equation

$$\left(\frac{1}{4}\right)^{2-x} = 4.$$

Problem 3

Rewrite the expression

$$\ln \frac{2x^3}{(x+1)^5}$$

Problem 4

Evaluate the following without using a calculator

(a) $\log_2 \frac{1}{8}$

(b) $\log 0.001$

(c) $\ln e^{-5}$