**Easy Logarithm Problems**

**1.** Given , find **(a)** a **(b)** .

 **(a)**

 **(b)**

**2.** Given , find (a) (b)

 (**a) Method 1**

 **Method 2**

 **(b)**

**3.** If , express p in terms of m and n.

 **Method 1**

 **Method 2**

**4.** Given , find in terms of y.

 ,

**5.** If , express p in terms of both m and n.

**6.** Given and .

 **(a)** Express in terms of h and k.

 **(b)** Express in terms of x and y.

**7.** **(a)** Simplify

 **(b)** Solve

 **(a)**

 **(b)**

 is rejected since it cannot satisfy the given equation, therefore .

**8.** Show that

 Since

 Therefore

**9.** Given , show that a = b = c .

 Let

 ,

 (u is real)

 From (1), a = b = c .

**7/2/2018**

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