**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**

**Yue Kwok Choy**