

SYSTEMS OF LOGARITHMIC EQUATION

Name _____

Class _____

Date _____

ANSWERS

1a _____

1b _____

2a _____

2b _____

3a _____

3b _____

Evaluate the followings.

1. a.
$$\begin{cases} 4^{x+y} = 128 \\ 5^{3x-2y-3} = 1 \end{cases}$$

b.
$$\begin{cases} 2^x + 2^y = 12 \\ x + y = 5 \end{cases}$$

2. a.
$$\begin{cases} \log_4 x - \log_2 y = 0 \\ x^2 - 5y^2 + 4 = 0 \end{cases}$$

b.
$$\begin{cases} \log_4 x - \log_2 y = 0 \\ x^2 - 2y^2 = 8 \end{cases}$$

3. a.
$$\begin{cases} 2(\log_y x + \log_x y) = 5 \\ xy = 8 \end{cases}$$

b.
$$\begin{cases} \log_y x + \log_x y = 2,5 \\ xy = 27 \end{cases}$$

C