

# Math 1513 - College Algebra

## Written Assignment 13 - Due 2016.04.17

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Directions: Please answer the following question in complete sentences. Be sure to label all geometric objects in any illustrations (if any). I will accept an answer in a scanned image format, as a pdf, or as a picture taken and sent from your awesome smart phone.

Consider the following system of equations:

$$\begin{cases} 2x - 3y = 2, \\ 4x + 2y = -1 \\ -5x - 6y = d \end{cases}$$

For what value of  $d$  does the above system have a solution? For this value of  $d$ , graph all three equations together. What do you notice?