

# Math 1513 - College Algebra

## Written Assignment 3 - Due 2017.06.25

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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.

Question: If the lines  $4y + 3x = -5$  and  $5y + ax = -2$  are perpendicular, what is the value of  $a$ ? Also, at what point do the two lines intersect? Finally, graph both lines and their point of intersection.