

# Math 1513 - College Algebra

## Written Assignment 3 - Due 2019.02.03

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Directions: Please answer the following question in complete sentences and show ALL work. Be sure to label all geometric objects in any illustrations. I will accept an answer in a scanned image format, as a pdf, or sent from your awesome picture phone. Do NOT send a Microsoft Word document, and be sure to submit your work through BlackBoard.

Question: If the lines  $3y - 5x = 1$  and  $a \cdot y + 4x = 7$  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.