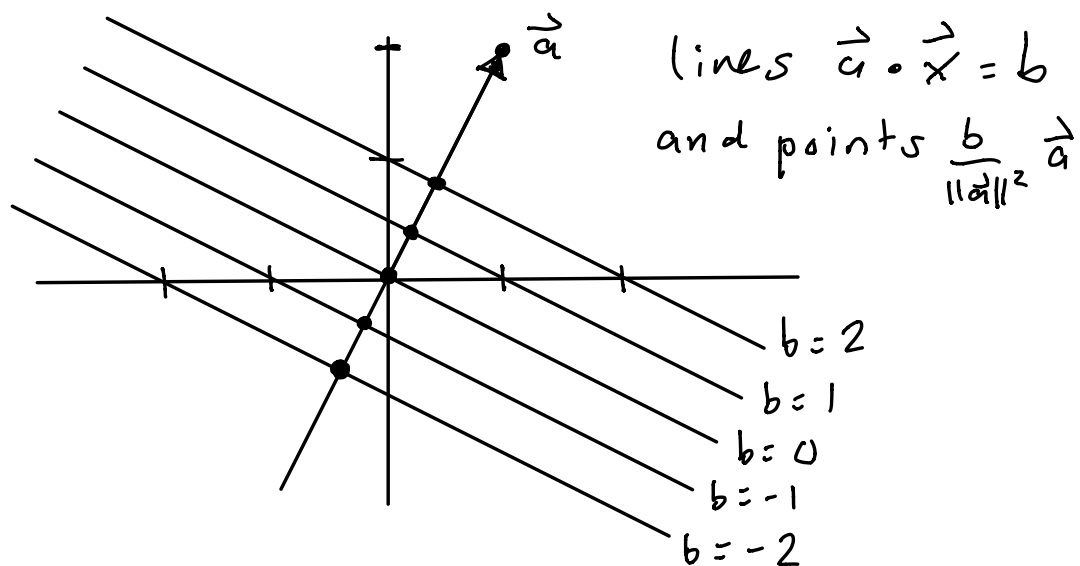


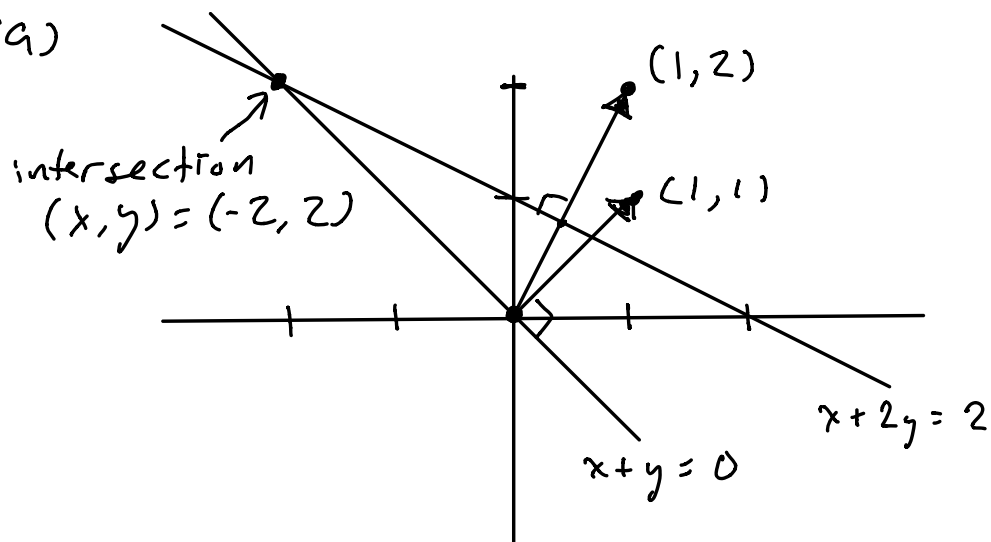
# HW 2 Solutions

Problem 1: Let  $\vec{a} = (1, 2)$ .



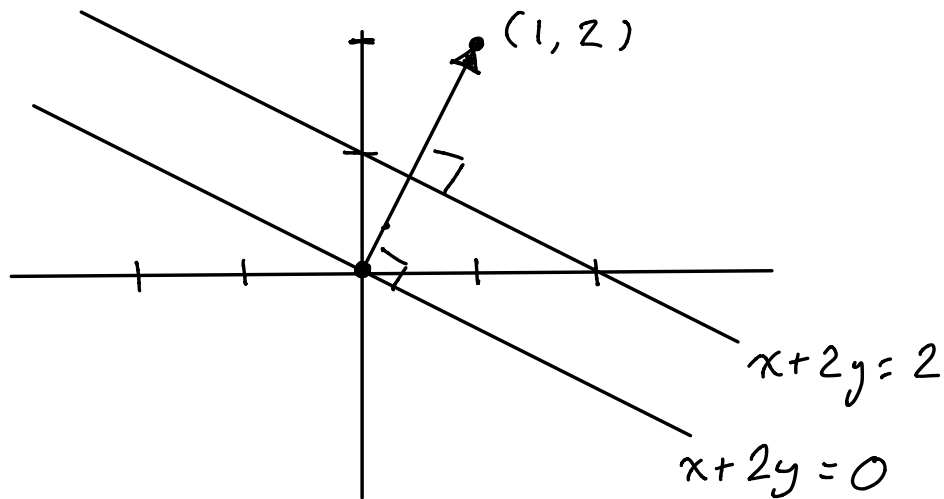
Problem 3:

(a)



$$(b) \quad \begin{cases} x + 2y = 2 \\ x + cy = 0 \end{cases}$$

If  $c = 2$  then the two lines are parallel and there is no solution:



Solutions to Problems 2, 4, 5 are in the lecture notes.