Name:		
MATH 101	"Geometry is not true, it is	
	advantageous."	
Fall 2022	– Henri Poincaré	
HW 17: Due 11/14		

Problem 1. (10pt) Explain why the lines y=2(2-x) and $y=\frac{7}{3}x+17$ intersect at the point (-3,10).

Problem 2. (10pt) Consider the following lines:

$$\ell_1: y = \frac{2}{3}x + 3$$

$$\ell_2: y = 14 - 3x$$

Explain why these lines intersect and find their point of intersection.

Problem 3. (10pt) Find the point of intersection between the following lines:

$$\ell_1: y = 4x - 13$$

$$\ell_2 : 5x + 4y = -10$$