Systems of Linea	r Equations – NYS Questions	Name:	
Project - Due Thu	ursday, 01/16/20	Date:	Period:
20 Point - Classw	ork Grade		
P 1.			
A school distric and vans.	t transported a total of 409 stude	ents and teachers	to a zoo in buses
• Each l	bus transported a total of 55 stud	lents and teachers	5.
• Each	van transported a total of 12 stud	dents and teachers	s.
• There	were 5 more buses than vans.		
	al number of students and teache al number of students and teache		
Show your wo	rk.		
Answer	students and te	eachers rode in buse	es
	students and te	eachers rode in vans	s

## P 2.

Determine the solution, if any, to the system of equations below.

$$8x - 2y = 1$$
$$-4x + y = 3$$

Show your work.

Oliver works at a bookstore. He packed 20 identical paperbacks and 9 identical	
textbooks in a box. The total mass of the books was 44.4 pounds. After he put	
1 more textbook and 5 more paperbacks in the box, the total mass of the books wa	S
51 pounds.	

Write a system of equations that can be used to determine p, the mass, in pounds, of

one paperback, and t, the mass, in pounds, of one textbook.
Answer
Solve the system of equations to find the two masses.
Show your work.
Mass of one paperback pound(s)

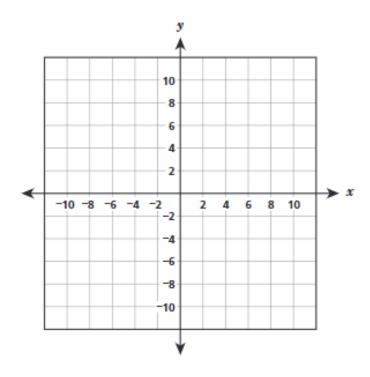
Mass of one textbook \_\_\_\_\_ pound(s)

## P 4.

Graph and label the given system of equations on the coordinate grid shown below.

$$y=\frac{1}{2}x+2$$

$$y = x - 1$$



What is the solution to the system of equations?

Answer \_\_\_\_\_