N5

SPTA
N5 Homework
Sim. Equations (B)

Show all working – <u>NO</u> Calculator allowed unless stated.

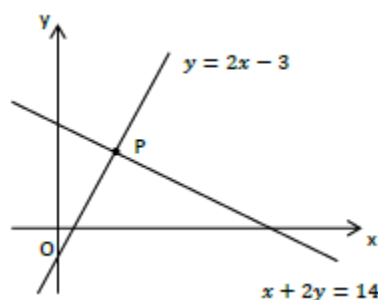**1**. Two lines have equations $4x + 2y = -2$ and $6x - 7y = 17$

Find the point of intersection of the 2 lines. **(3)**

2. The graph shows two straight lines

The lines intersect at point P

Find, algebraically, the coordinates of P

$y = 2x - 3$

$x + 2y = 14$

(3)

3. Solve: $3c - 2d = 21$

$2c + 5d = -5$ **(3)**

4. There are 14 cars and 60 passengers on the morning crossing of the ferry from Wemyss Bay to Rothesay. The total takings are £344.30

a) Let x pounds be the cost for a car and y pounds be the cost for a passenger. Write down an equation in x and which satisfies the above condition. **(1)**

b) There are 21 cars and 40 passengers on the evening crossing of the ferry. The total takings are £368.95. Write down a second equation in x and y which satisfies this condition. **(1)**

c) Find the cost for a car and the cost for a passenger on the ferry. **(4)**

Total Marks: 15