

3) Salary of Secretary in Factory - B =  $1000 \left(1 - \frac{20}{100}\right)$

(1/2) Thus  $x = 800 \$$

(1/2) Mean:  $\bar{X}_B = \frac{\sum n_i x_i}{N}$

$$1340 = \frac{8(800) + 9(1500) + 3(y)}{20}$$

$$26800 = 19900 + 3y$$

$$3y = 6900$$

(1/2) Thus  $y = 2300 \$$

4th exercise:

2) let R be midpt of [BE]

then  $x_R = \frac{x_B + x_E}{2} = 3$

$y_R = \frac{y_B + y_E}{2} = 2$  (R(3,2))

Egn: (AR):  $\frac{y - y_R}{x - x_R} = \frac{y_A - y_R}{x_A - x_R}$

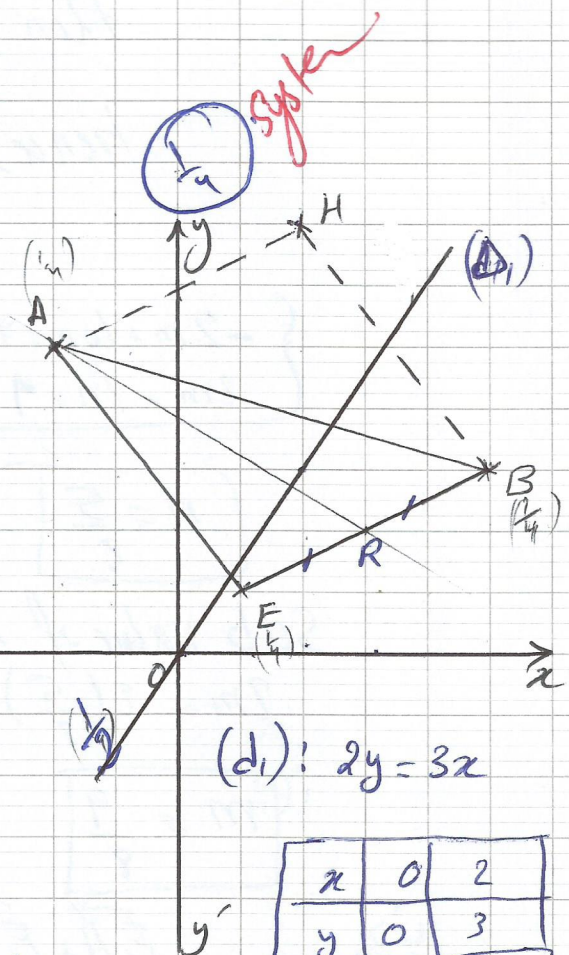
(AR):  $y = -\frac{3}{5}x + \frac{19}{5}$

Now, C belongs to (AR)

Then, its coordinates satisfy egn of (AR)

So,  $\left[ \begin{matrix} 2a + 3 = -\frac{3}{5}a + \frac{19}{5} \\ 13a = 4 \end{matrix} \right] \times (5)$

$a = \frac{4}{13}$



(d1):  $2y = 3x$

x	0	2
y	0	3
(2, y)	(0, 0)	(2, 3)
	(1/2)	