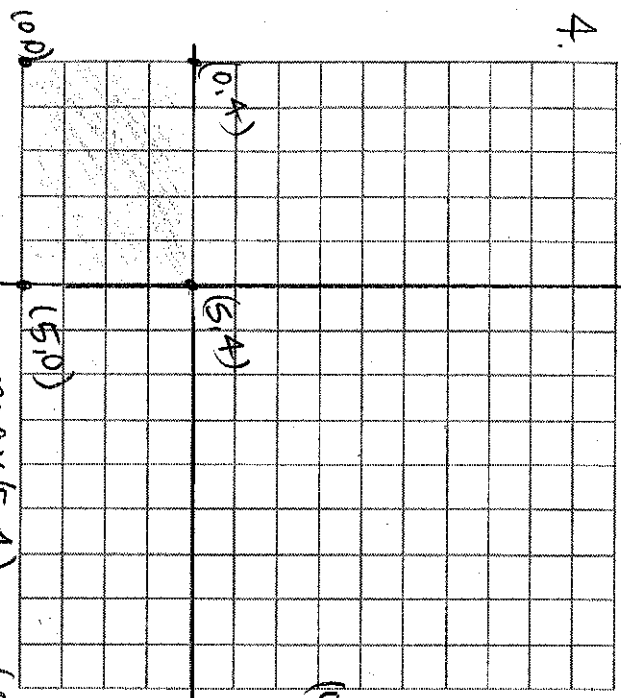


2.  $7(400) + 4(300)$   
 $2800 + 1200 = 4000$

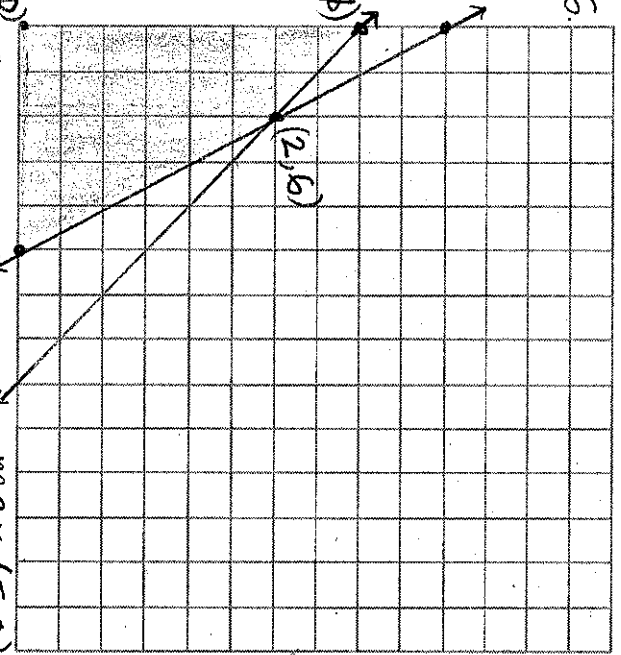
$7(600) + 4(60) = 4200$

Max  $(600, 0)$



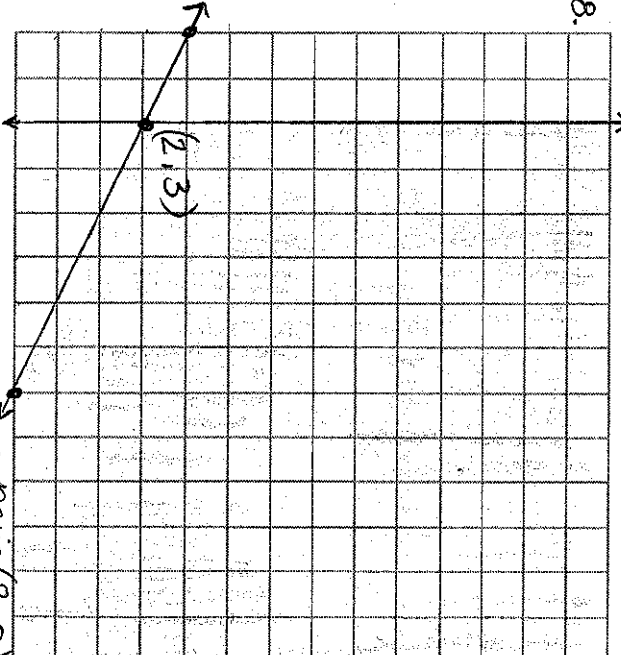
$P = 3(5) + 2(4)$   
 $P = 15 + 8 = 23$

max  $(5, 4)$



$N = 100(2) + 40(6)$  or  $N = 100(5) + 40(6)$   
 $N = 200 + 240 = 440$  or  $N = 500 + 240 = 740$

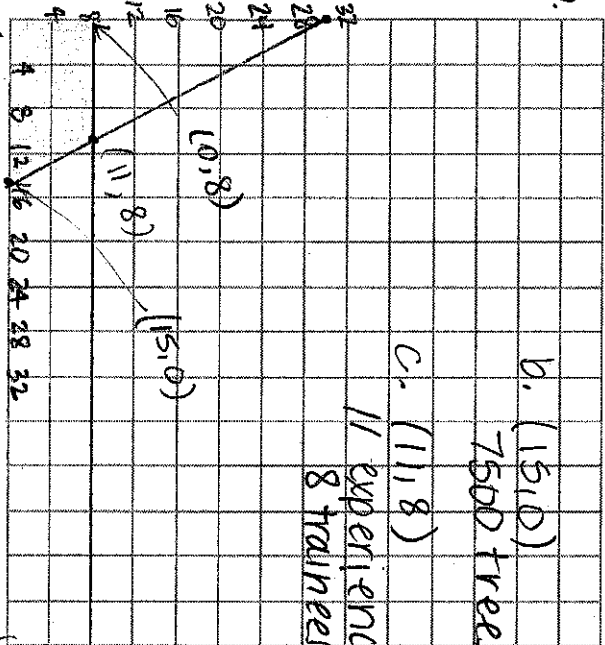
max  $(5, 0)$



$C = X + 3y$   
 $C = 8 + 3(0) = 8$  or  $C = 11 + 9$   
 $C = 2 + 3(3) = 11$

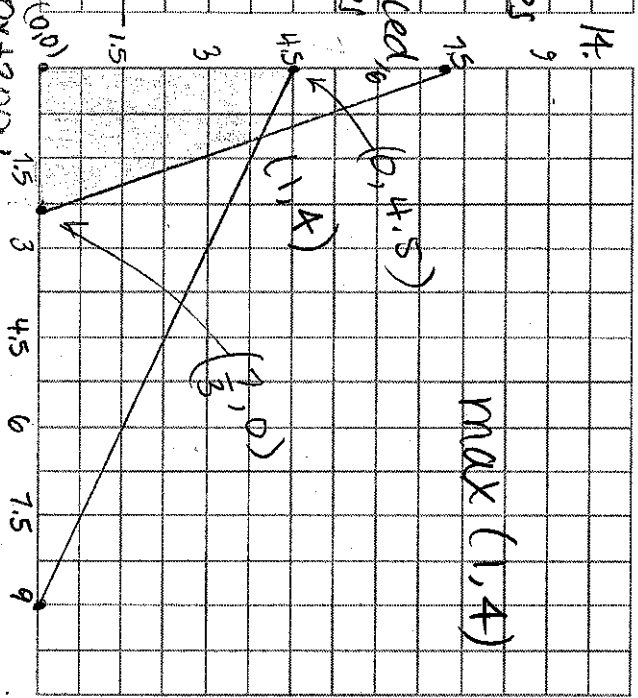
min  $(8, 0)$

10.



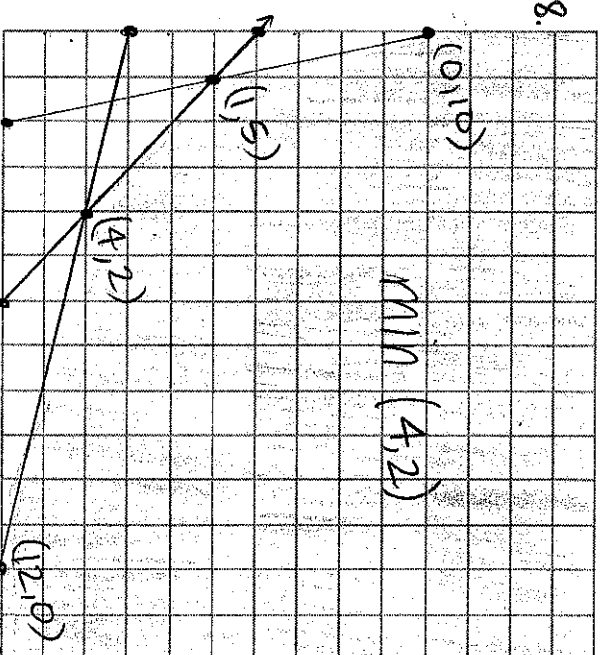
b.  $(15, 0)$   
 7500 trees  
 11 experienced  
 8 trainees

11.



max  $(1, 4)$

18.



min  $(4, 2)$

a.  $2x + y \leq 30$   
 $2y \leq 16$   
 $x \geq 0, y \geq 0$

Max  $500x + 200y$   
 $500(11) + 200(8)$   
 $5500 + 1600 = 7100$   
 $500(15) = 7500$

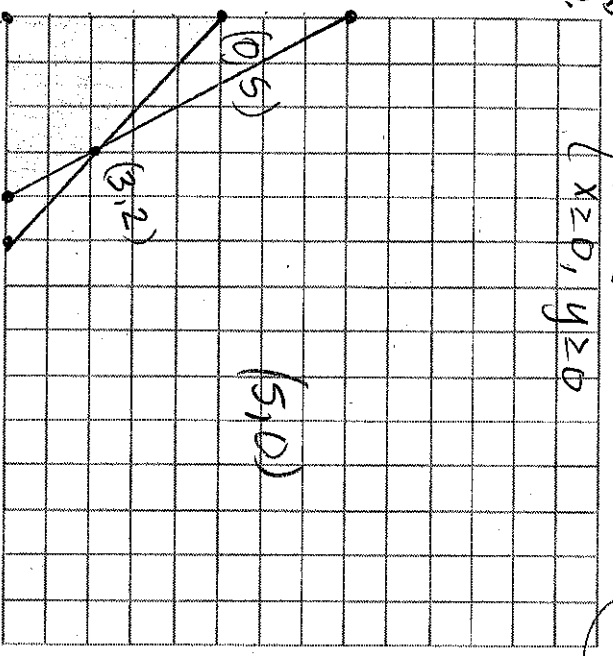
$2x + y$   
 $2(1) + 0 = \frac{14}{3}$   
 $2(1) + 4 = 6$

Min  $10,000x + 20,000y$   
 $10,000(12) = 120,000$   
 $10,000(4) + 20,000(2)$   
 $40,000 + 40,000 = 80,000$

20.  $b$   $10$

$$\begin{cases} 4c + 2b \leq 16 \\ 3c + 3b \leq 15 \\ x \geq 0, y \geq 0 \end{cases}$$

~~10~~



$(0,0)$   
 $(5,0)$   
MAX  $3c + 2b$

$$\begin{aligned} 3(5) &= 15 \\ 3(3) + 2(2) &= 13 \\ 9 + 4 &= 13 \end{aligned}$$

COST

