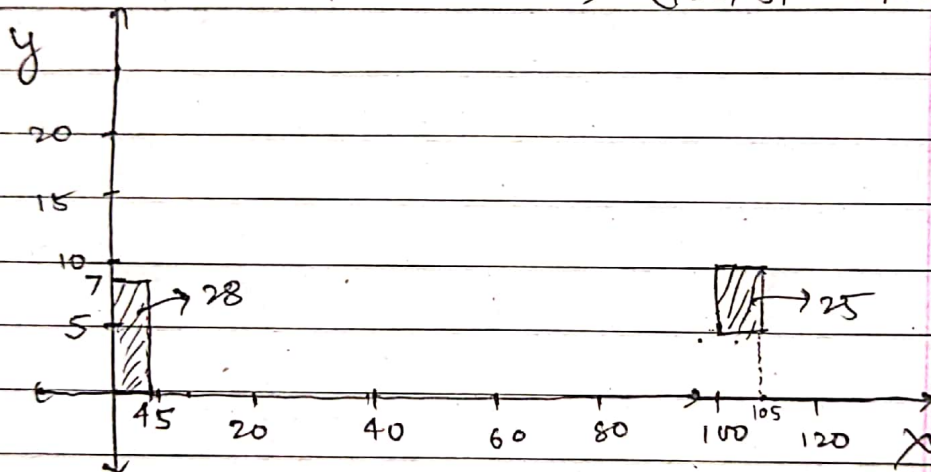


Measure = 100

② Input

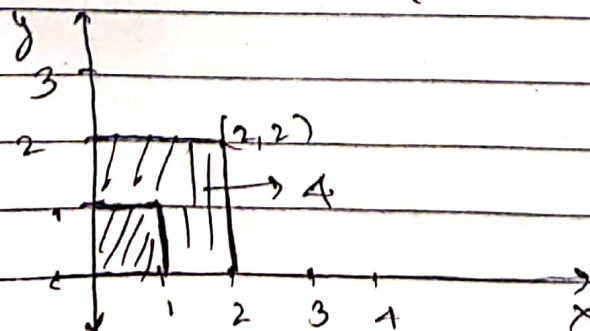
2  $\rightarrow (x_1, y_1, x_2, y_2) \rightarrow (0, 0, 4, 7)$   
 $\rightarrow (100, 5, 105, 10)$



total measure = 28 + 25 = 53

③ Input

2  $\rightarrow (x_1, y_1, x_2, y_2) \rightarrow (0, 0, 2, 2)$   
 $\rightarrow (0, 0, 1, 1)$

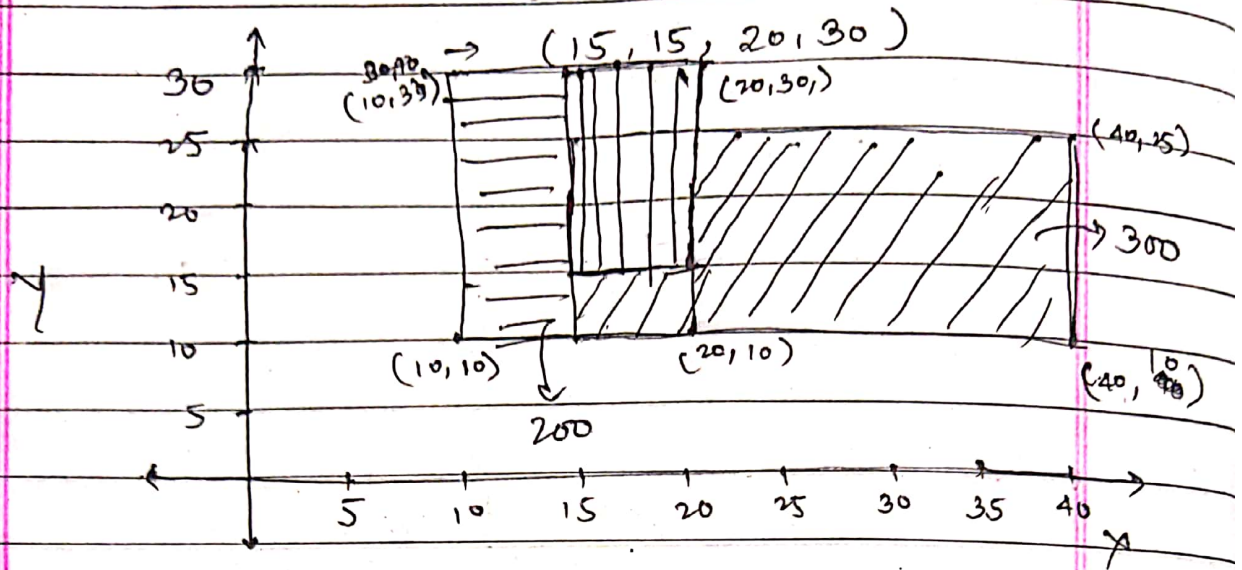


Area Measure = 4

④ Input  $\rightarrow 3, (x_1, y_1, x_2, y_2)$

$\rightarrow (10, 10, 20, 30)$

$\rightarrow (15, 10, 40, 25)$



$$\text{Total measure} = 200 + 300 = 500$$

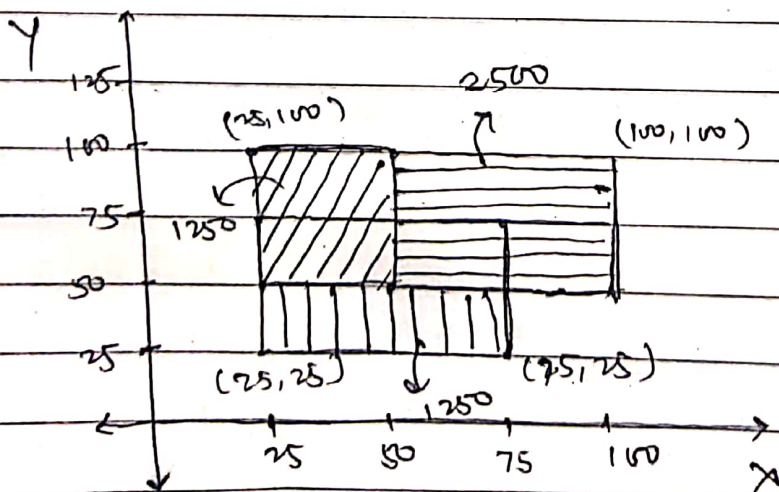
⑤ Input

$3 \rightarrow (x_1, y_1, x_2, y_2)$

$(25, 25, 75, 75)$

$(25, 50, 50, 100)$

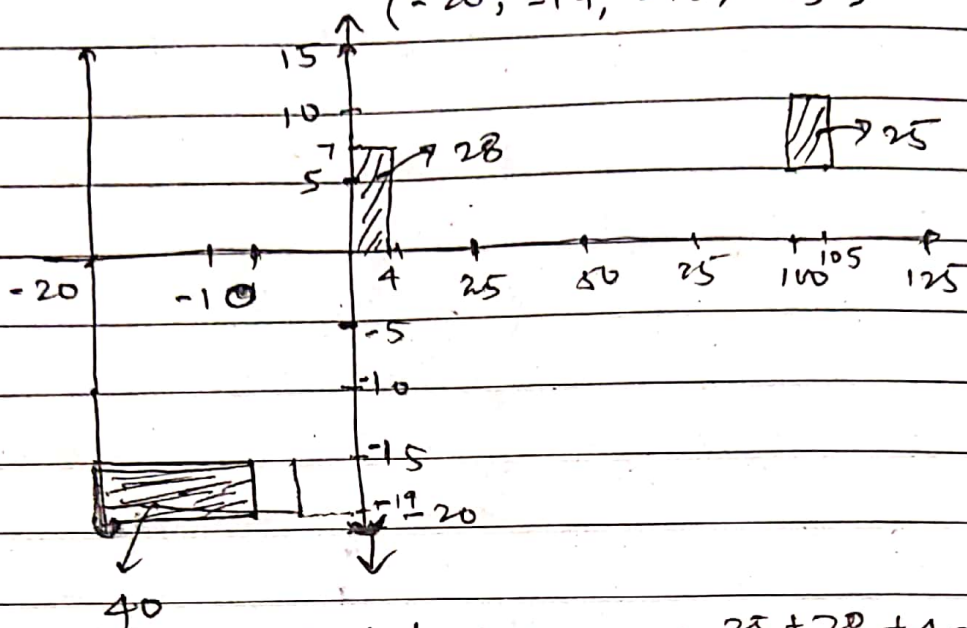
$(50, 50, 100, 100)$



$$\text{Area Measure} = 2500 + 1250 + 1250 = 5000$$

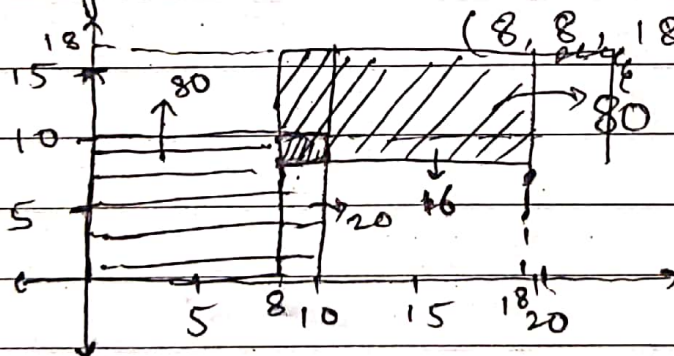


Q6 Input 3.  $\rightarrow (x_1, y_1, x_2, y_2)$   
 $(100, 5, 105, 10)$   
 $(0, 0, 4, 7)$   
 $(-20, -19, -10, -15)$



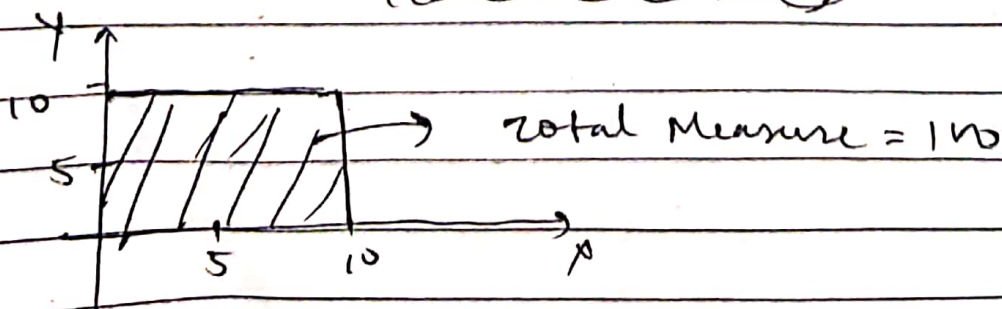
$$\text{Total measure} = 25 + 28 + 40 = 93$$

Q7 Input  $\rightarrow 2, (x_1, y_1, x_2, y_2)$   
 $(0, 0, 10, 10)$   
 $(8, 8, 18, 18)$

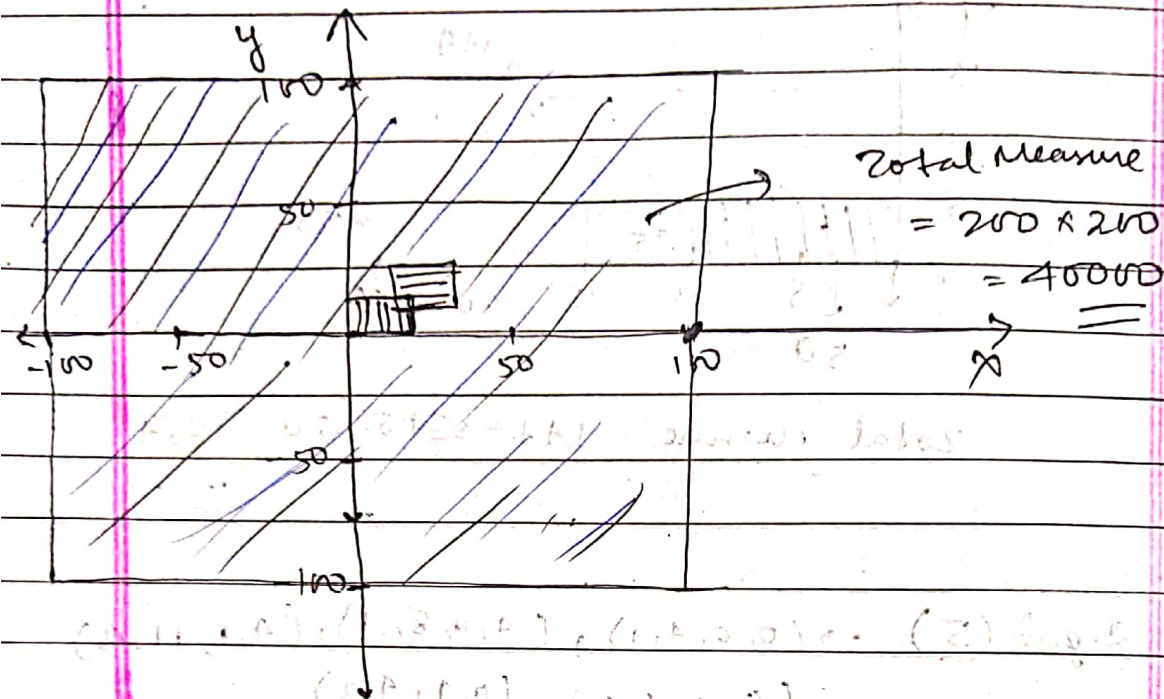


$$\text{Total measure} = 80 + 20 + 16 + 80 = 196$$

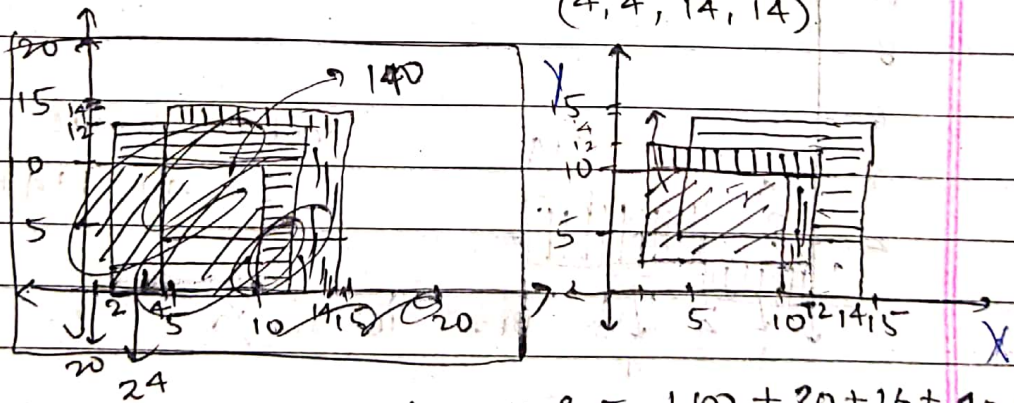
Q8 Input  $\rightarrow (3)$   $(0, 0, 10, 10)$   
 $(0, 0, 10, 10)$   
 $(100, 100, 100, 100)$



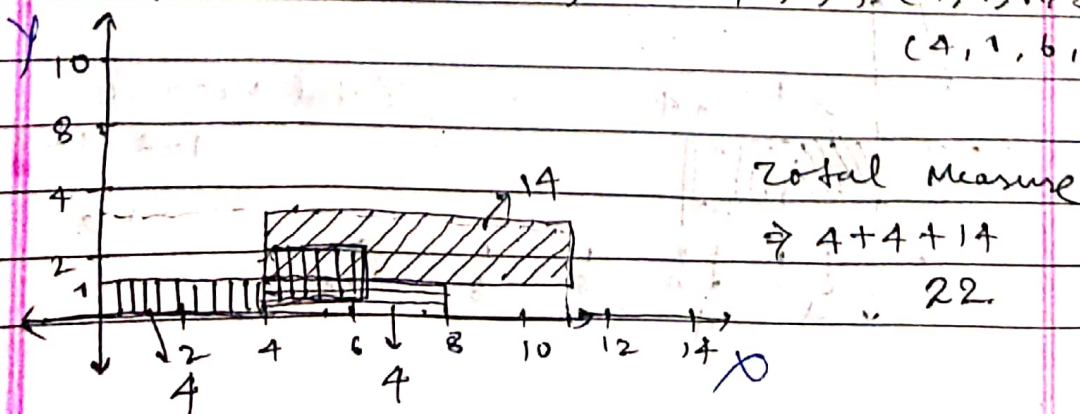
(8, 8, 18, 18)  
 (0, 0, 10, 10)  
 (-10, -10, 10, 10)  
 Input  $\rightarrow 3$



Input  $\rightarrow (0, 0, 100, 10), (2, 2, 12, 12), (4, 4, 14, 14)$

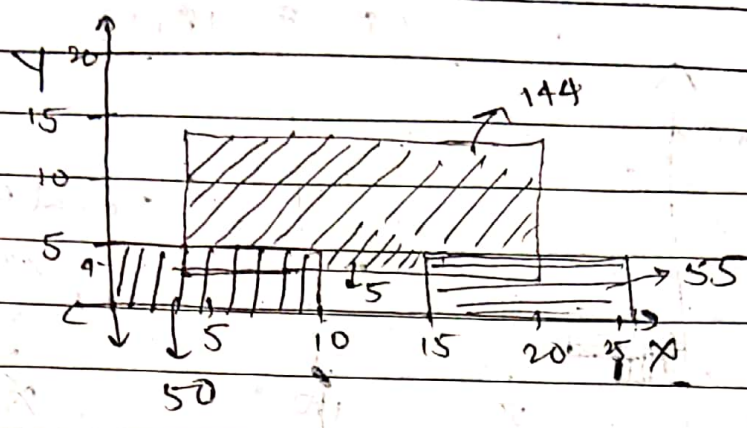


Input (4)  $(0, 0, 4, 1), (4, 0, 8, 1), (4, 1, 11, 3), (4, 1, 6, 2)$



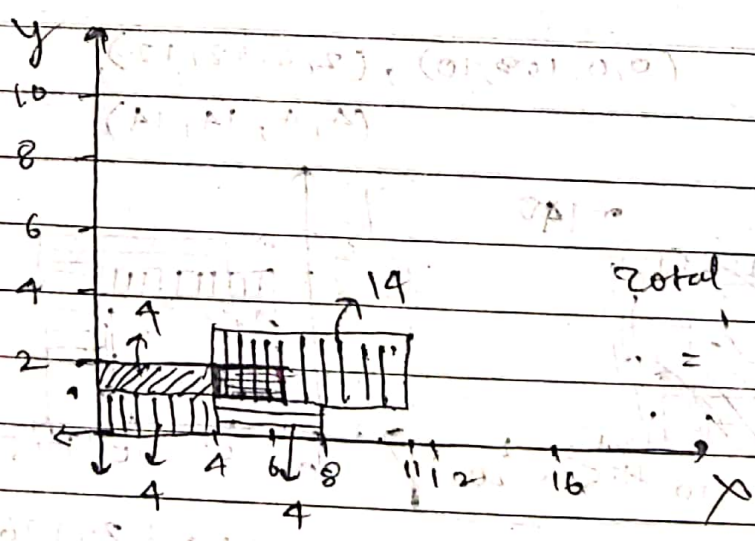


(12) Input (3)  $(x_1, y_1, x_2, y_2)$   
 $(0, 0, 10, 5)$ ,  $(4, 4, 20, 14)$   
 $(15, 0, 26, 5)$



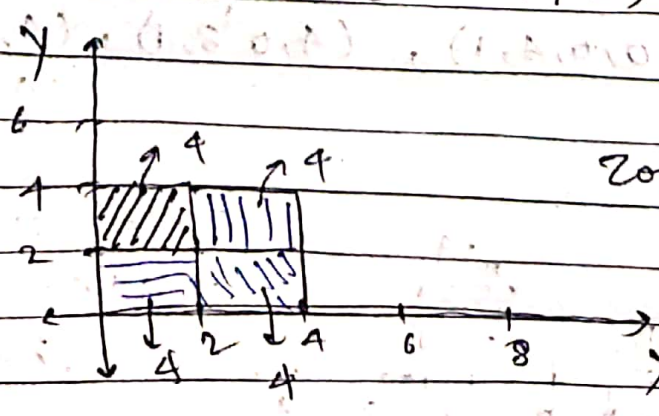
Total Measure =  $144 + 55 + 5 + 50 = 254$

(13) Input (5)  $\rightarrow (0, 0, 4, 1)$ ,  $(4, 0, 8, 1)$ ,  $(4, 1, 11, 3)$   
 $(4, 1, 6, 2)$ ,  $(0, 1, 4, 2)$



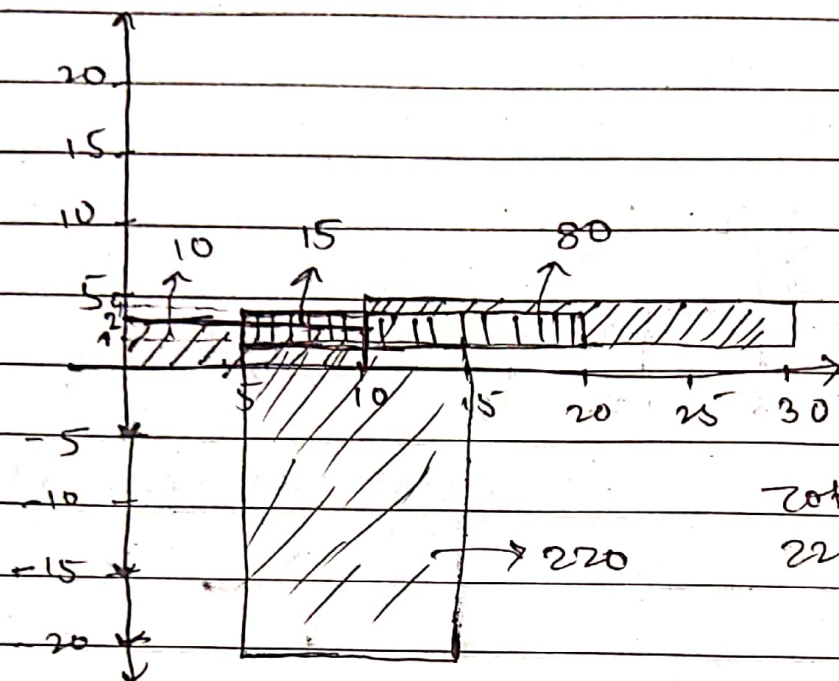
Total measure  
 $= 4 + 14 + 4 + 4 = 26$

(16) Input 4  $\rightarrow (0, 0, 2, 2)$ ,  $(0, 2, 2, 4)$   
 $(2, 0, 4, 2)$ ,  $(2, 2, 4, 4)$



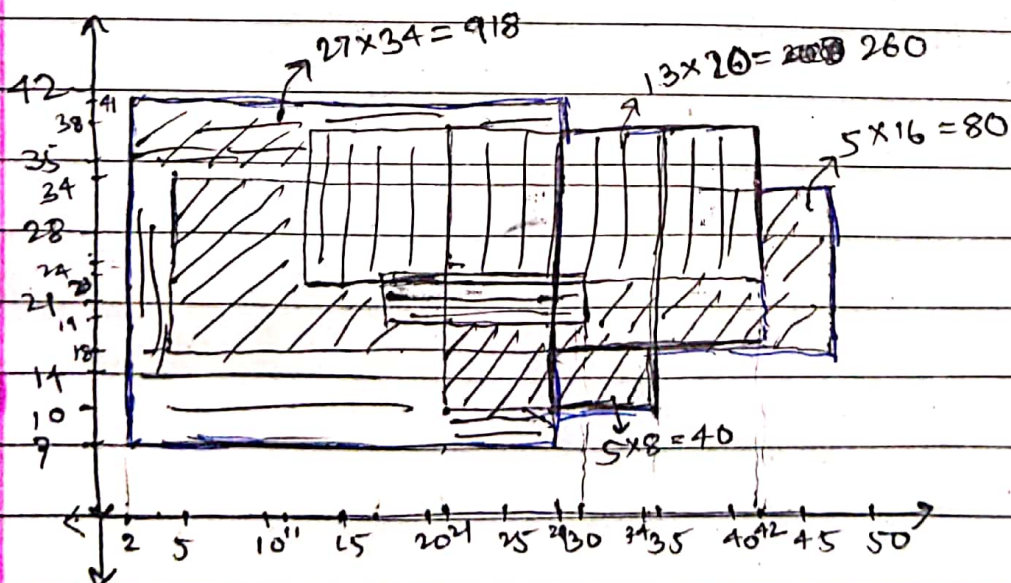
Total Measure  
 $= 4 + 4 + 4 + 4 = 16$

(14)

Input (6)  $(x_1, y_1, x_2, y_2)$  $(5, 1, 20, 4), (10, 1, 30, 5), (5, -21, 15, 1)$  $(0, 0, 10, 2), (0, 0, 2, 2)$ 

$$\begin{aligned} \text{Total Measure} &= \\ &220 + 80 + 15 + 10 \\ &= 325 \end{aligned}$$

(15)

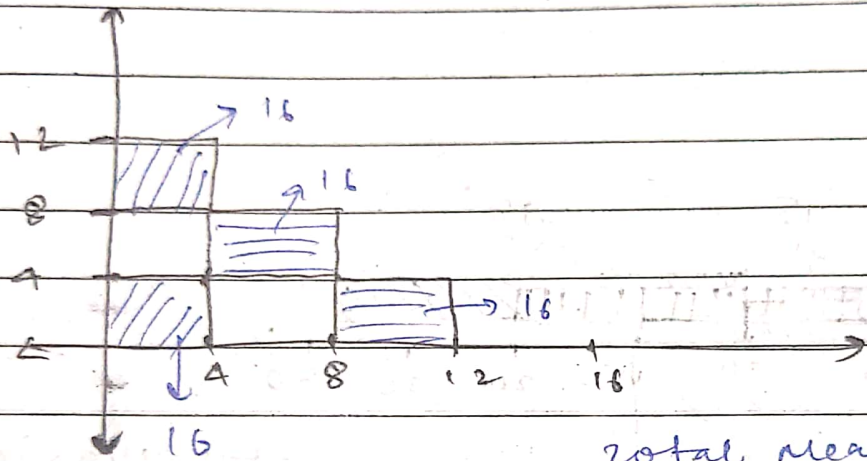
Input (5)  $(17, 19, 30, 24), (3, 18, 47, 34)$  $(21, 10, 34, 38), (2, 7, 28, 41), (11, 28, 42, 38)$ 

$$\begin{aligned} \text{Total Measure} &= 918 + 260 + 80 + 40 \\ &= 1298 \end{aligned}$$

(17) Input = 5  $(x_1, y_1, x_2, y_2)$

$(0, 0, 4, 4)$ ,  $(4, 4, 8, 8)$ ,  $(0, 8, 4, 12)$

$(8, 0, 12, 4)$ ,  $(8, 0, 12, 4)$



total measure =  $16 \times 4 = 64$