Case ) 2 
$$\chi_2 \neq 0$$
  
Then (II) implies  $\chi_+ \mid -y = 0$   $\chi_- \mid \chi_- \mid$ 

if 
$$\alpha=2$$
,  $y=5$ , then

$$\begin{cases} 4\lambda_1 + 3\lambda_2 - 2 = 0 \\ 8 - \lambda_1 + \lambda_2 = 0 \end{cases} \Rightarrow \begin{cases} \lambda_1 = \frac{86}{7} \\ \lambda_2 = \frac{30}{7} \end{cases}$$

$$\frac{1}{\sqrt{\lambda^{2}-5}}, \frac{\sqrt{2}}{\sqrt{2}}$$

$$\frac{1}{\sqrt{50-10\lambda_{1}+3\lambda_{2}=0}} \Rightarrow \frac{\lambda_{1}=-\frac{16}{7}}{\sqrt{50}} < 0$$

$$\frac{1}{\sqrt{\lambda_{1}}=-\frac{516}{7}} < 0$$

Therefore, prairs 
$$((1,2),2,0)$$
 and  $((2,5),\frac{86}{7},\frac{30}{7})$  satisfy  
the KKT condition.  
min  $(X-3)^2+(y-1)^2$   
if  $X=1$ ,  $y=2$ , then objective function =  $5$ 

if 
$$x=1$$
,  $y=2$ , then objective function =  $\xi$ 

if 
$$x=2, y=3$$
. Objective function = 17