

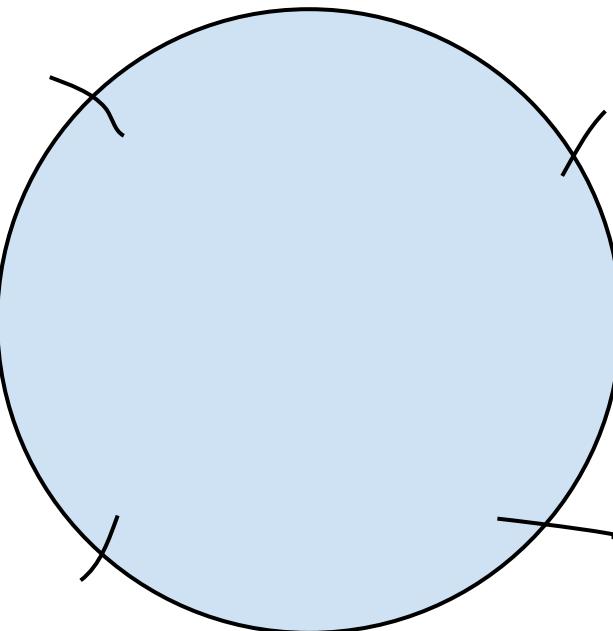
$$4\sin y - 6\sqrt{2}\cos x = 5 + 4\cos^2 y$$
$$\cos 2x = 0$$

$$2x = \frac{\pi}{2} + pk$$
$$x = \frac{\pi}{4} + pk/2$$
$$x_1 = \pm \frac{\pi}{4} + 2pk$$
$$x_2 = \pm \frac{3\pi}{4} + 2pk$$

$$4\sin y - 6 = 5 + 4\cos^2 y$$
$$4\sin y - 4\cos^2 y = 11$$
$$4\sin y - 4 + 4\sin^2 y = 11$$
$$4\sin y + 4\sin^2 y - 15 = 0$$
$$\sin y = t$$
$$4t^2 + 4t - 15 = 0$$
$$D/4 = 4 + 60 = 64$$
$$t_1 = (-2+8)/4 = 6/4 = -3/2 \text{ не может}$$
$$t_2 = (-2-8)/4 = -10/4 = -5 \text{ не может}$$

$$4\sin y + 6 = 5 + 4\cos^2 y$$
$$4\sin y - 4\sin^2 y + 1 = 0$$
$$\sin y = t$$
$$4t^2 - 4t + 1 = 0$$
$$D/4 = 4 - 4 = 0$$
$$x_1 = 2/4 = 1/2$$
$$\sin y = 1/2$$
$$y = p/6 + 2pk$$
$$y = 5p/6 + 2pk$$
$$x = \pm \frac{3\pi}{4} + 2pn$$

Ответ:  $(-\frac{\pi}{2} + 2pk; \frac{p}{6} + 2pk); (\pm \frac{3\pi}{4} + 2pn; \frac{5p}{6} + 2pk)$



4sin $y$ -6V2cos $x$ =5+4cos $^2 y$   
4sin $y$ -4cos $^2 y$ =11  
4sin $y$ -4+4sin $^2 y$ =11  
4sin $y$ +4sin $^2 y$ -15=0  
sin $y$ =t  
4t $^2$ +4t-15=0  
D/4=4+60=64  
t $_1$ =(-2+8)/4=6/4=-3/2 не может  
t $_2$ =(-2-8)/4=-10/4=-5 не может

4sin $y$ +6=5+4cos $^2 y$   
4sin $y$ -4sin $^2 y$ +1=0  
sin $y$ =t  
4t $^2$ -4t+1=0  
D/4=4-4=0  
x $_1$ =2/4=1/2  
sin $y$ =1/2  
y=p/6+2pk  
y=5p/6+2pk  
x=+-3p/4+2pn  
Ответ:(-p/2+2pk;p/6+2pk);(+-3p/4+2pn;5p/6+2pk)