

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

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$$2x = \pi/2 + \pi k$$
$$x = \pi/4 + \pi k/2$$

$$4\sin y - 6\sqrt{2} \cdot \sqrt{2}/2 = 5 + 4\cos^2 y$$
$$4\sin y - 6 = 5 + 4 - 4\sin^2 y$$
$$4\sin^2 y + 4\sin y - 11 = 0$$
$$D/4 = 8^2$$
$$\sin y = -5/2 - \text{NO}$$
$$\sin y = 3/2 - \text{NO}$$

$$4\sin y + 6 = 5 + 4 - 4\sin^2 y$$
$$4\sin^2 y + 3\sin y - 3 = 0$$
$$D/4 = 4 + 12 = 4^2$$
$$\sin y = -6/4 - \text{NO}$$
$$\sin y = 1/2$$

$$y = \pi/6 + 2\pi k$$
$$y = 5\pi/6 + 2\pi k$$

$$x = \pm 3\pi/4 + 2\pi k$$

$$\text{OTBET } (\pm 3\pi/4 + 2\pi k; \pi/6 + 2\pi k) (\pm 3\pi/4 + 2\pi k; 5\pi/6 + 2\pi k)$$

