



$$9-5\sin^{2}\lambda=20+5\cos^{2}\lambda-20\cos\lambda$$

$$9-5\sin^{2}\lambda-20-5\cos^{2}\lambda+20\cos\lambda=0$$

$$-11-5(\sin^{2}\lambda+\cos^{2}\lambda)+20\cos\lambda=0$$

$$-16+20\cos\lambda=0\implies \cos\lambda=\frac{4}{5}$$

$$\sin\lambda=\sqrt{1-6}$$





