

3.88
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$$5 \sin 2x + \sqrt{75} \cos 2x - 10 = 0 \quad /: 5$$

$$\sin 2x + \sqrt{3} \cos 2x = 2 \quad /: 2$$

$$\frac{1}{2} \sin 2x + \frac{\sqrt{3}}{2} \cos 2x = 1$$

$$\cos 60^\circ \sin 2x + \sin 60^\circ \cos 2x = 1$$

$$\sin(2x + 60^\circ) = 1$$

$$2x + \frac{\pi}{3} = \frac{\pi}{2} + 2\pi k$$

$$X = \frac{\pi}{12} + \pi k$$