

$$2\sqrt{3}\sin 5x - \sqrt{3}\sin x = \cos 24x \cdot \cos x + 2\cos 5x - 6$$

$$2\sqrt{3}\sin 5x - 2\cos 5x = \cos 24x \cdot \cos x - \sqrt{3}\sin x - 6$$

$$4(\sin 5x \cdot \sqrt{3}/2 + \cos 5x \cdot -1/2) = 4(\sin 5x \cdot \cos P/6 - \cos 5x \cdot \sin P/6) = 4\sin(-P/6 + 5x) \text{ лежит } [-4; 4]$$

$$-\sqrt{3}\sin x + \cos 24x \cdot \cos x = \sqrt{3 + \cos^2 24x}(\sin x \cdot -\sqrt{3}/\sqrt{3 + \cos^2 24x} + \cos x \cdot \cos 24x/\sqrt{3 + \cos^2 24x}) = \sqrt{3 + \cos^2 24x}(\sin x + U) \text{ лежит...}$$

$$\cos U = -\sqrt{3}/\sqrt{3 + \cos^2 24x}$$

$$\sin U = \cos 24x/\sqrt{3 + \cos^2 24x}$$

$$4\sin(-P/6 + 5x) = \sqrt{3 + \cos^2 24x}(\sin x + U) - 6$$

$$\min(4\sin(-P/6 + 5x)) = -4$$

$$\max(\sqrt{3 + \cos^2 24x}(\sin x + U)) = 2$$

$$4\sin(-P/6 + 5x) = -4$$