Trigonometrie Aufgabe 263

$\sin 2x * \sin x = 0$

$2 * \sin x * \cos x * \sin x = 0$

$2 * \sin^2 x * \cos x = 0$

$2 * (1 - \cos^2 x) * \cos x = 0$

$2 * \cos x * (1 - \cos^2 x) = 0$

$2 * \cos x = 0 \longrightarrow x = 90° \text{ oder } 270°$

$1 - \cos^2 x = 0 \mid -\cos^2 x$

$\cos^2 x = 1 \mid \sqrt{}$

$\cos x_{1,2} = \pm 1$

$\cos x_1 = 1 \longrightarrow x = 0° \text{ oder } 360°$

$\cos x_2 = -1 \longrightarrow x = 180°$

Lösungsmenge **L = {0°, 90°, 180°}**