

- 1) $2 \sin x \sin 2x - 6 \cos x = \sin 2x$
- 2) $\sin 6x = \sin 2x - \cos 4x \quad x \in [0, \pi]$
- 3) $\sin(x + \frac{\pi}{4}) \cos(x + \frac{\pi}{4}) = -\frac{\sqrt{2}}{4} \quad x \in [-\pi; 2\pi]$
- 4) $\sin 2x - 2 \cos^2 x = \sqrt{3}(\cos x - \sin x)$
- 5) $-2 \sin^2 x - 3 \cos x + 3 = 0 \quad x \in [-2\pi; \pi]$

Rozwiżi równania (5x4p)

- 1) $2 \sin 2x + \cos 3x + \cos 3x + 2 \sin 2x = -1$
- 2) $\sin 2x + \cos 3x = 0 \quad \text{gdym } x \in [-\pi; \pi]$
- 3) $\sqrt{3} \cos x \cos 2x + 2 \sin x \cos^2 x = 0$
gdym $x \in [-\frac{\pi}{2}, 2\pi]$
- 4) $4 \sin 5x \sin 3x = 1 + 2 \cos 2x$
gdym $x \in [0, \pi]$
- 5) $\sin 4x - 2 \sin 2x = 1 - \cos 2x$