Funcțiile trigonometrice pt. argumentul dublu și triplu

$$\sin 2x = 2\sin x \cos x$$
$$\cos 2x = \cos^2 x - \sin^2 x$$
$$\cos 2x = 1 - 2\sin^2 x$$
$$\cos 2x = 2\cos^2 x - 1$$
$$tg2x = \frac{2tgx}{1 - tg^2 x}, \quad \cos x \neq 0, \cos 2x \neq 0$$

$$\sin 3x = 3\sin x - 4\sin^3 x$$
$$\cos 3x = 4\cos^3 x - 3\cos x$$

$$\sin x = 2\sin \frac{x}{2} \cos \frac{x}{2}$$
$$\cos x = \cos^2 \frac{x}{2} - \sin^2 \frac{x}{2}$$
$$tgx = \frac{2tg\frac{x}{2}}{1 - tg^2 \frac{x}{2}}, \quad \cos \frac{x}{2} \neq 0.$$

$$\sin^2 x = \frac{1 - \cos 2x}{2}$$
$$\cos^2 x = \frac{1 + \cos 2x}{2}$$