

TRIGONOMETRIJSKE
RELACIJE ZA UGAO "A"

	$-A$	$90 \pm A$	$180 \pm A$	$270 \pm A$	$360 k \pm A$
sin	$-\sin A$	$\cos A$	$\mp \sin A$	$-\cos A$	$\pm \sin A$
cos	$\cos A$	$\mp \sin A$	$-\cos A$	$\pm \sin A$	$\cos A$

TRIGONOMETRIJSKE RELACIJE

$$\sin (A \pm B) = \sin A \cos B \pm \cos A \sin B$$

$$\cos (A \pm B) = \cos A \cos B \mp \sin A \sin B$$

$$\sin 2A = 2 \sin A \cos A$$

$$\cos 2A = 1 - 2 \sin^2 A = 2 \cos^2 A - 1$$

$$\sin A + \sin B = 2 \sin \frac{A+B}{2} \cos \frac{A-B}{2}$$

$$\sin A - \sin B = 2 \cos \frac{A+B}{2} \sin \frac{A-B}{2}$$

$$\cos A + \cos B = 2 \cos \frac{A+B}{2} \cos \frac{A-B}{2}$$

$$\cos A - \cos B = 2 \sin \frac{A+B}{2} \sin \frac{B-A}{2}$$

$$\sin A \sin B = \frac{1}{2} [\cos (A - B) - \cos (A + B)]$$

$$\cos A \cos B = \frac{1}{2} [\cos (A - B) + \cos (A + B)]$$

$$\sin A \cos B = \frac{1}{2} [\sin (A - B) + \sin (A + B)]$$

INTEGRALI
TRIGONOMETRIJSKIH
FUNKCIJA

OSNOVNI

$$\int \sin nx \, dx = -\frac{\cos nx}{n}$$

$$\int \sin^2 nx \, dx = \frac{x}{2} - \frac{\sin 2nx}{4n}$$

$$\int \sin mx \sin nx \, dx = \frac{\sin (m - n)x}{2(m - n)} - \frac{\sin (m + n)x}{2(m + n)} \quad \text{for } m \neq n$$

$$\int \cos nx \, dx = \frac{\sin nx}{n}$$

$$\int \cos^2 nx \, dx = \frac{x}{2} + \frac{\sin 2nx}{4n}$$

$$\int \cos mx \cos nx \, dx = \frac{\sin (m - n)x}{2(m - n)} + \frac{\sin (m + n)x}{2(m + n)} \quad \text{for } m \neq n$$

$$\int \sin nx \cos nx \, dx = \frac{\sin^2 nx}{2n}$$

$$\int \sin mx \cos nx \, dx = \frac{\cos (m - n)x}{2(m - n)} - \frac{\cos (m + n)x}{2(m + n)} \quad \text{for } m \neq n$$