

**PRIZMA:**  $P=2S+S_n$ ,  $V=S \cdot v$ ,  $P=2(ab+ac+bc)$ ,  $P=6a^2$ ,  $V=S \cdot v$  **VALJ:**  $P=2S+o \cdot v$ ,  $V=S \cdot v$ ,  $V=S \cdot v$ ,  $V=S \cdot v$

**PIRAMIDA:**  $P=S+S_n$ ,  $S_n=1/2 \cdot o \cdot v$ ,  $V=Sv/3$ ;

**STOŽEC:**  $P=S+S_n$ ,  $S_n=\pi r^2$ ,  $V=1/3Sv$ ,  $V=1/3\pi r^2 v$ ; **KROGLA:**  $P=4\pi r^2$ ,  $V=4\pi r^3$

	0	30	45°	60°	90°
si	0	1/2	√2/2	√3/2	1
co	1	√3/2	√2/2	1/2	0
tg	0	1/√3	1	√3	
ctg		√3	1	1/√3	0

**TOPI KOTI:**  $\cos\alpha = -\cos(180^\circ - \alpha)$ ,  $\sin\alpha = -\sin(180^\circ - \alpha)$

**PERIODIČNOST:**  $\sin(\alpha + 2\pi) = \sin\alpha$ ,  $\cos(\alpha + 2\pi) = \cos\alpha$

**SODOST, LIHOST:**  $\cos(-\alpha) = \cos\alpha$ ,  $\sin(-\alpha) = -\sin\alpha$

**ADICIJSKI IZREK:**  $\cos(\alpha \pm \beta) = \cos\alpha \cos\beta \mp \sin\alpha \sin\beta$ ,  $\sin(\alpha \pm \beta) = \sin\alpha \cos\beta \pm \cos\alpha \sin\beta$

**PREHOD NA OSTRJI KOTI:**  $\cos(90^\circ + \alpha) = -\sin\alpha$ ,  $\sin(90^\circ + \alpha) = \cos\alpha$ ,  $\cos(180^\circ + \alpha) = -\cos\alpha$ ,  $\sin(180^\circ + \alpha) = -\sin\alpha$ ,  $\cos(270^\circ + \alpha) = \sin\alpha$ ,  $\sin(270^\circ + \alpha) = -\cos\alpha$

**DVOJNI IN POLOVIČNI KOTI:**  $\sin x/2 = \pm \sqrt{(1 - \cos x)/2}$ ,  $\cos x/2 = \pm \sqrt{(1 + \cos x)/2}$ ;  $\sin 2\alpha = 2\sin\alpha \cos\alpha$ ,  $\cos 2\alpha = \cos^2\alpha - \sin^2\alpha$

**PRETRETVE · V + IN OBRATNO:**

$\sin\alpha + \sin\beta = 2\sin(\alpha + \beta)/2 \cdot \cos(\alpha - \beta)/2$ ,

$\cos\alpha + \cos\beta = 2\cos(\alpha + \beta)/2 \cdot \cos(\alpha - \beta)/2$ ,

$\cos\alpha - \cos\beta = -2\sin(\alpha + \beta)/2 \cdot \sin(\alpha - \beta)/2$

**TANGENS IN KOTANGENS:**  $\operatorname{tg}\alpha = \sin\alpha/\cos\alpha$ ,  $\operatorname{ctg}\alpha = \cos\alpha/\sin\alpha$ ;  $\operatorname{tg}\alpha = 1/\operatorname{ctg}\alpha$ ;  $1 + \operatorname{tg}^2\alpha = 1/\cos^2\alpha$ ,  $1 + \operatorname{ctg}^2\alpha = 1/\sin^2\alpha$ ;  $\operatorname{tg}\alpha = \operatorname{ctg}(90^\circ - \alpha)$ ,  $\operatorname{ctg}\alpha = \operatorname{tg}(90^\circ - \alpha)$ ;

**LIHOST:**  $\operatorname{tg}(-\alpha) = -\operatorname{tg}\alpha$ ,  $\operatorname{ctg}(-\alpha) = -\operatorname{ctg}\alpha$ ;

$\operatorname{tg}(180^\circ - \alpha) = -\operatorname{tg}\alpha$ ,  $\operatorname{ctg}(180^\circ - \alpha) = -\operatorname{ctg}\alpha$ ;

**PERIODIČNOST:**  $\operatorname{tg}(180^\circ + \alpha) = \operatorname{tg}\alpha$ ,  $\operatorname{ctg}(180^\circ + \alpha) = \operatorname{ctg}\alpha$ ; **ADICIJSKI IZREK:**  $\operatorname{tg}(\alpha + \beta) = \frac{\operatorname{tg}\alpha + \operatorname{tg}\beta}{1 - \operatorname{tg}\alpha \operatorname{tg}\beta}$