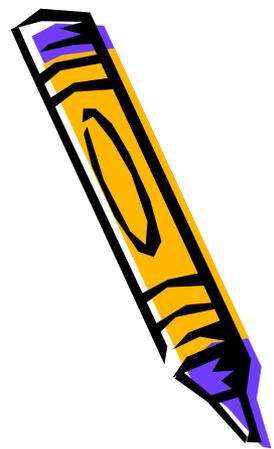




Формулы приведения



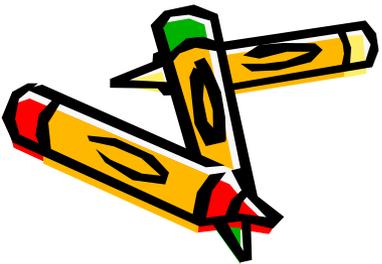
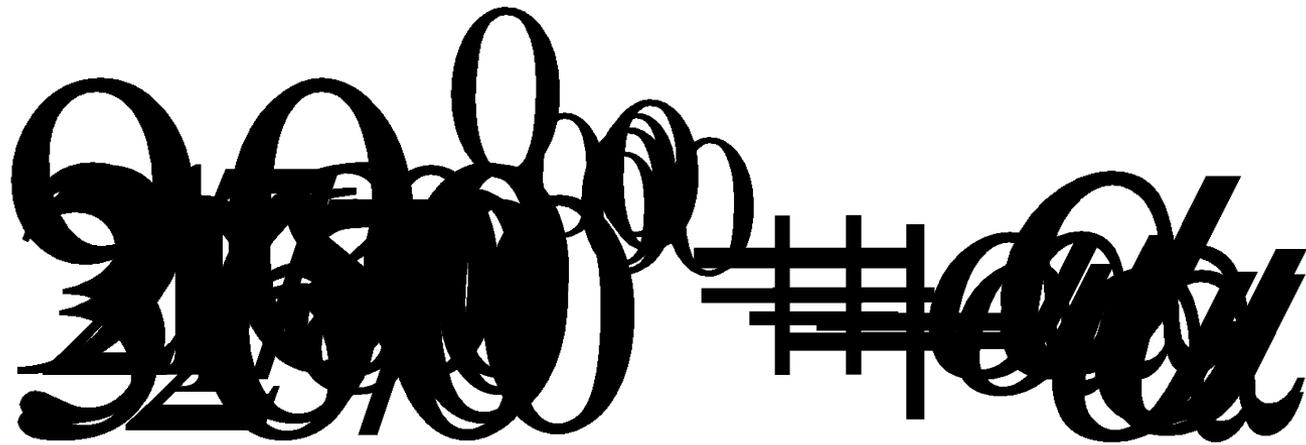
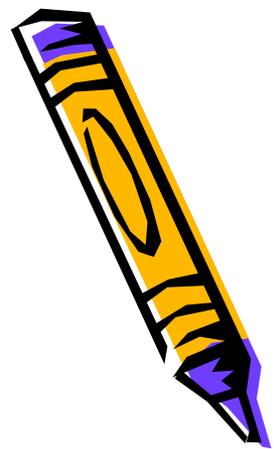
Перевести в градусную меру:



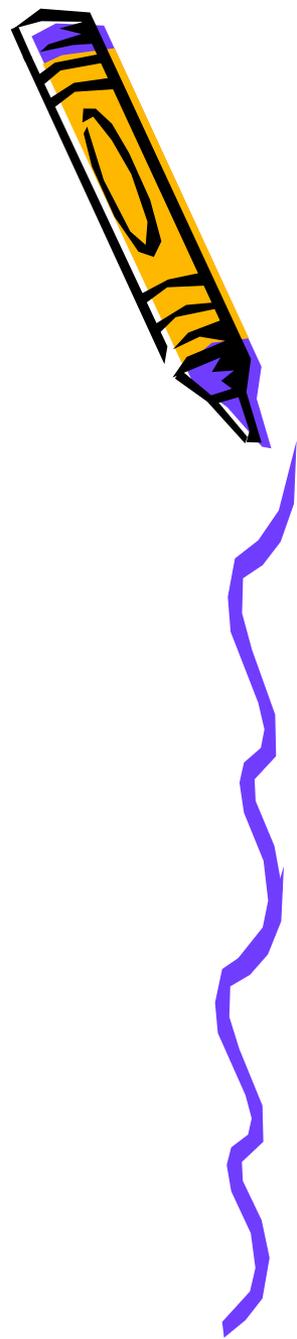
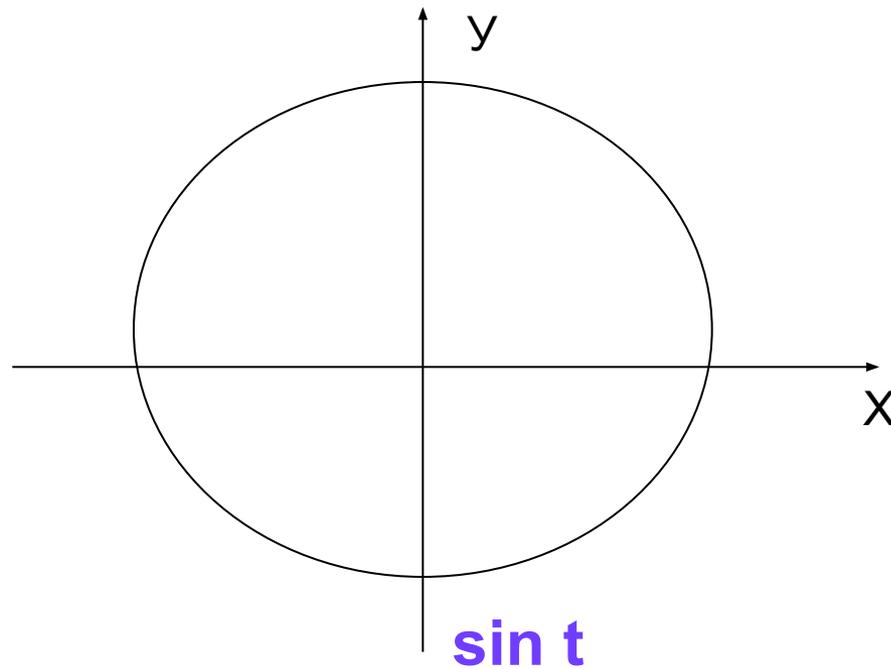
$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	$\frac{2\pi}{3}$	$\frac{3\pi}{4}$	$\frac{5\pi}{6}$	π	$\frac{7\pi}{6}$	$\frac{5\pi}{4}$	$\frac{4\pi}{3}$	$\frac{3\pi}{2}$	$\frac{5\pi}{3}$	$\frac{7\pi}{4}$	$\frac{11\pi}{6}$



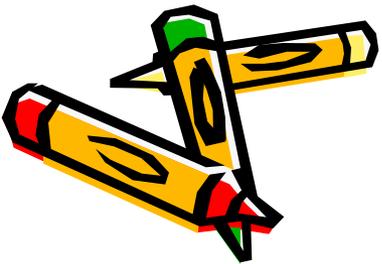
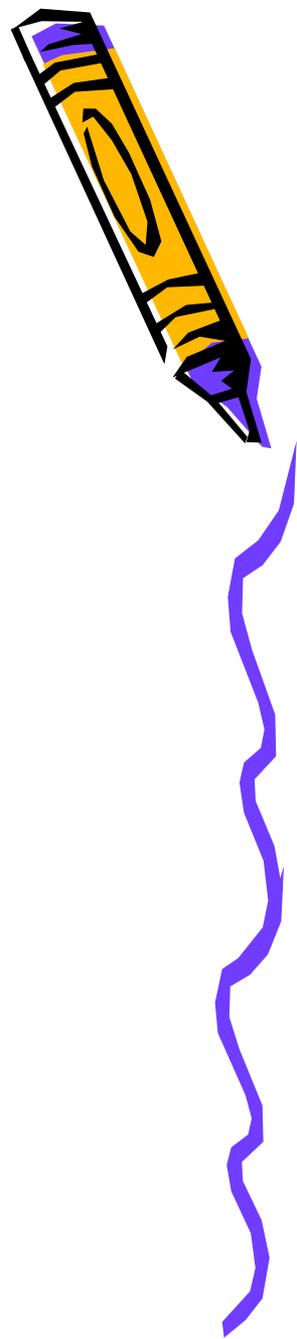
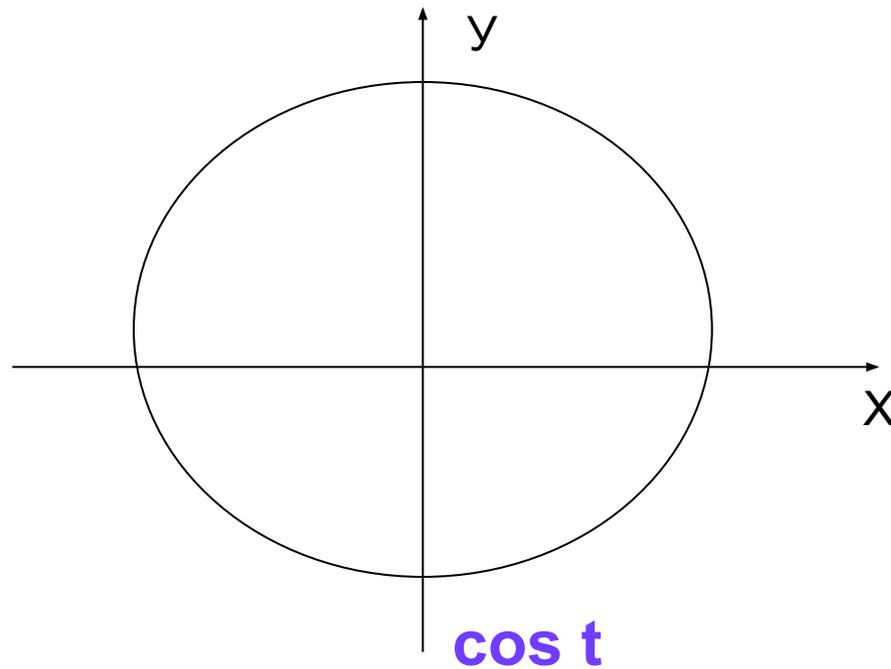
В какой четверти
находятся углы?



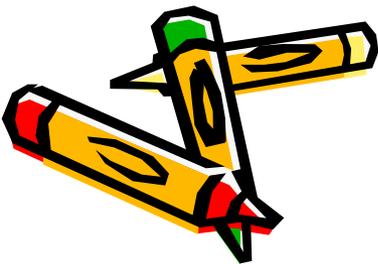
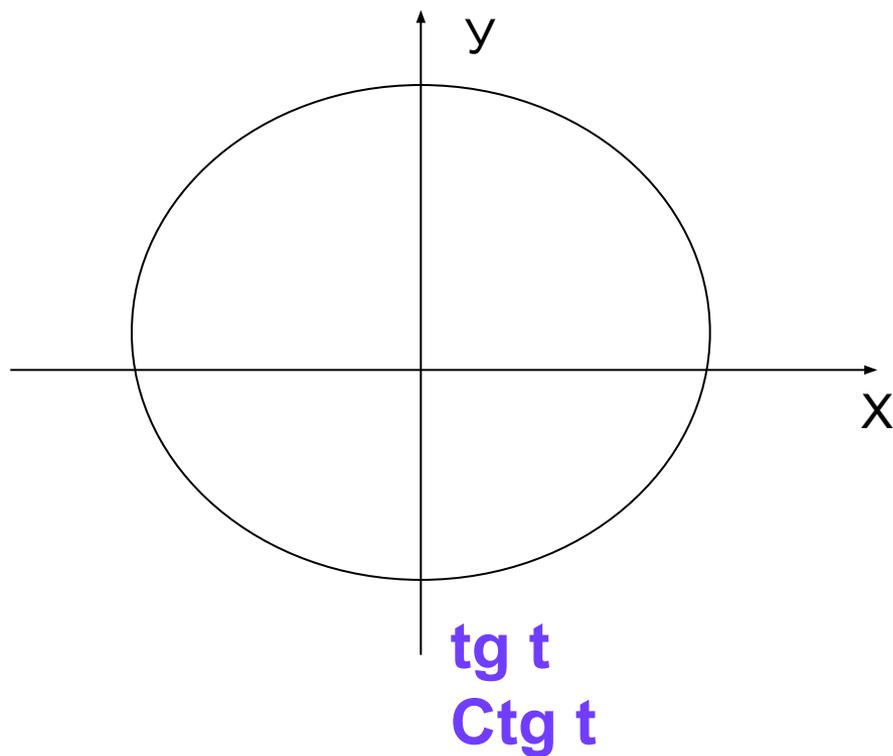
Назвать знаки функции
по четвертям:



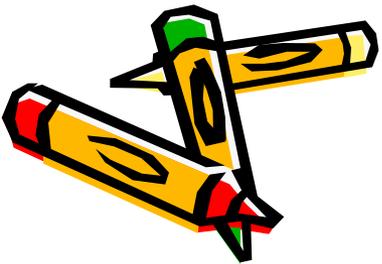
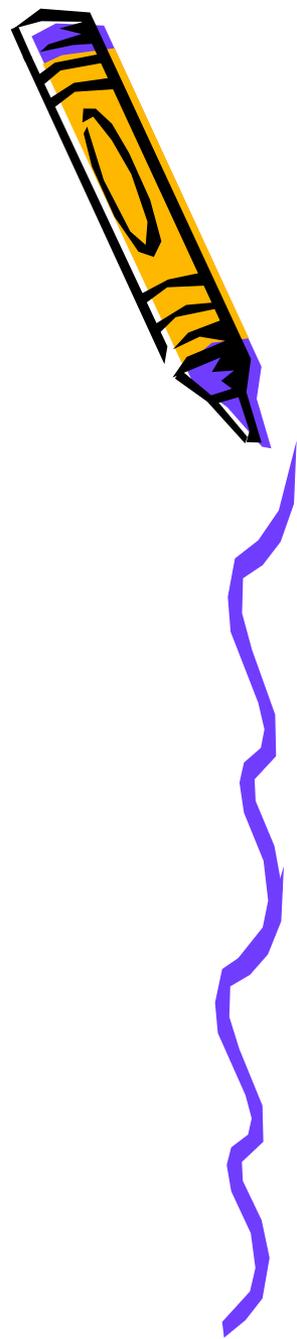
Назвать знаки функции
по четвертям:



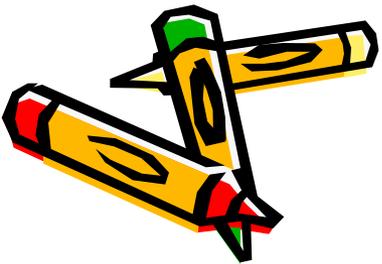
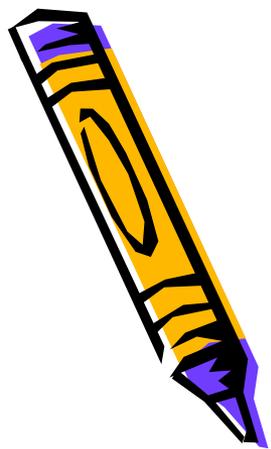
Назвать знаки функции
по четвертям:



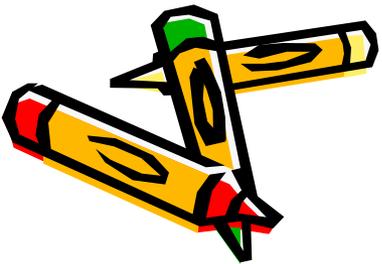
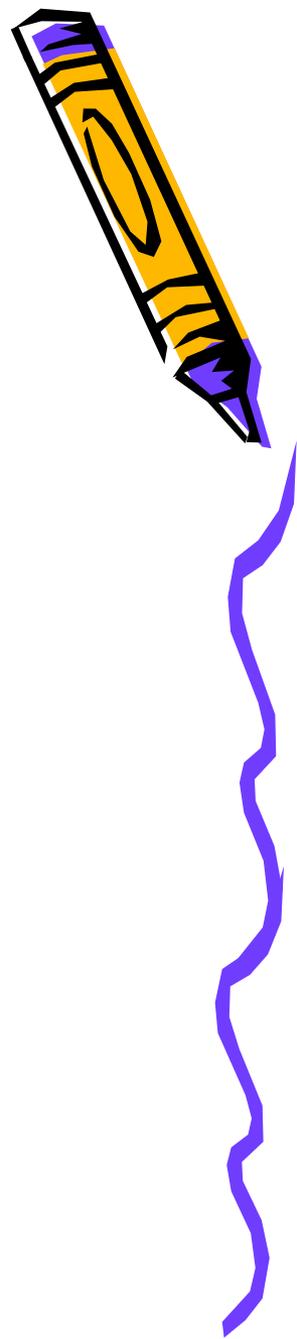
$$\cos(-t) =$$



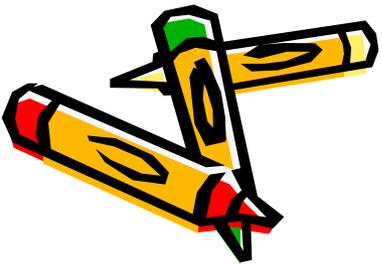
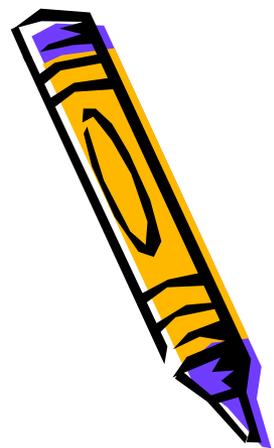
$$\cos(-t) = \cos t$$



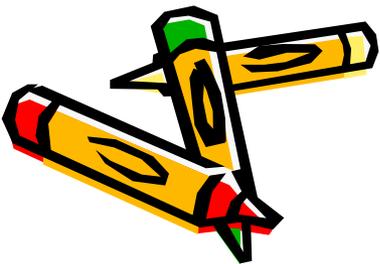
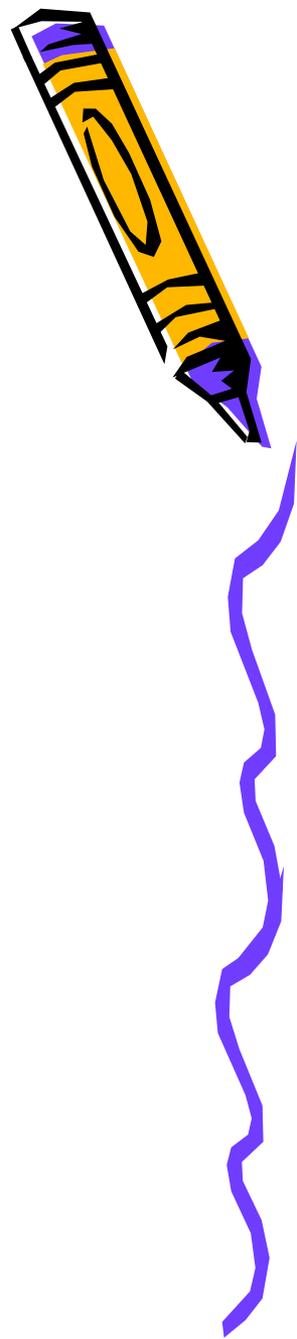
$$\operatorname{tg}(-t) =$$



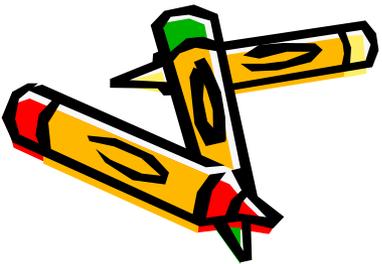
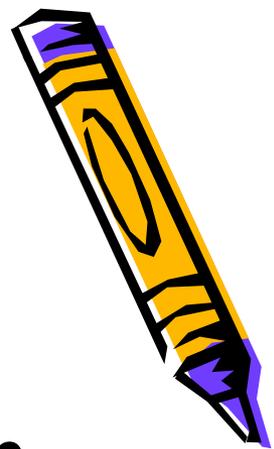
$$\operatorname{tg}(-t) = -\operatorname{tg} t$$



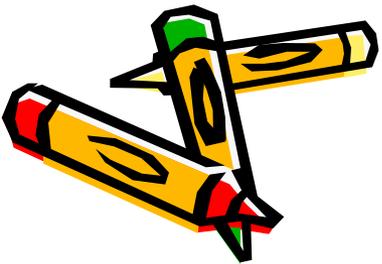
$$\operatorname{ctg}(-t) =$$



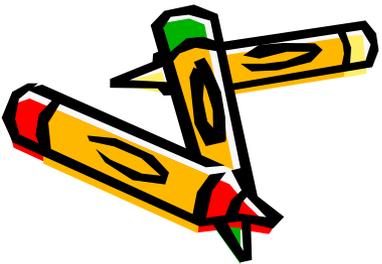
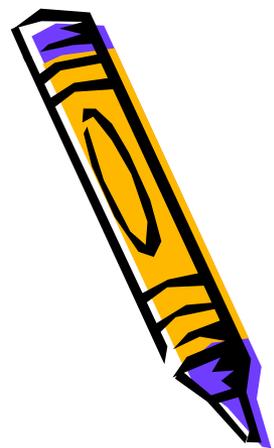
$$\operatorname{ctg}(-t) = -\operatorname{ctg} t$$



$$\sin(-t) =$$



$$\sin(-t) = -\sin t$$

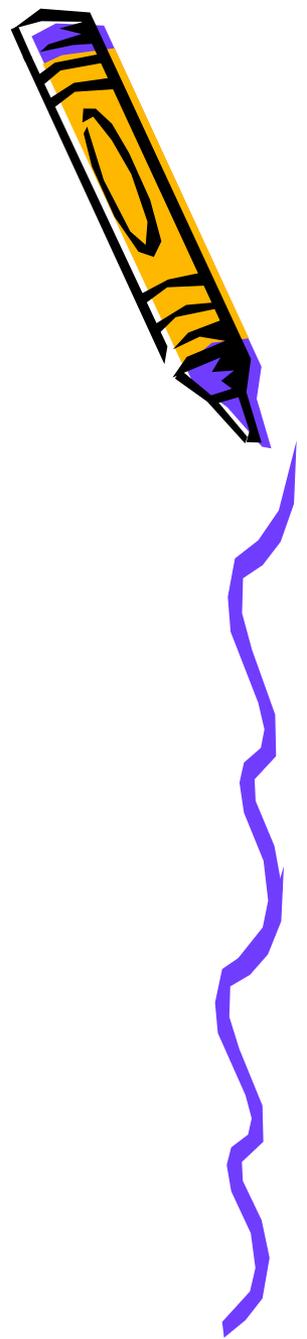
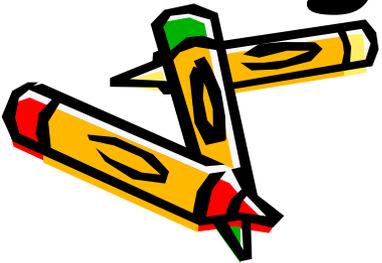


$$\sin(-t) = -\sin t$$

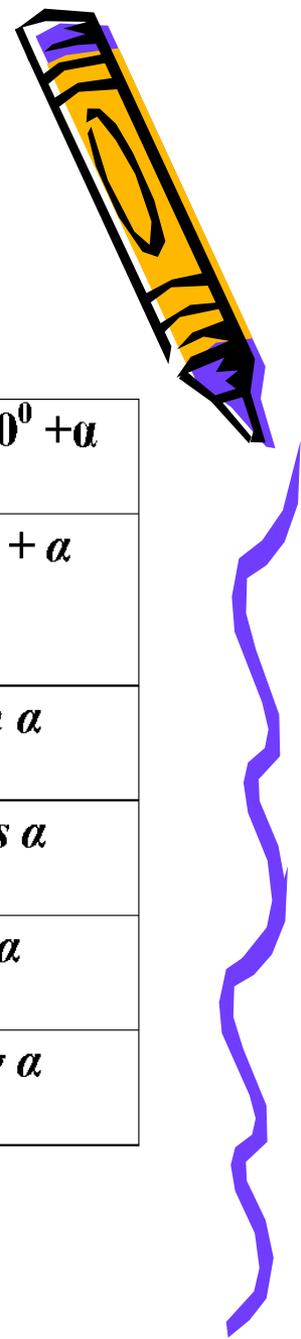
$$\cos(-t) = \cos t$$

$$\operatorname{tg}(-t) = -\operatorname{tg} t$$

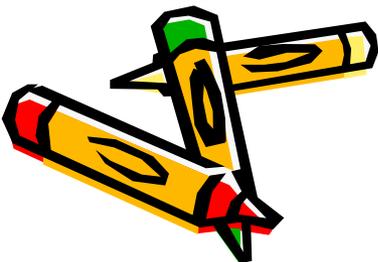
$$\operatorname{ctg}(-t) = -\operatorname{ctg} t$$



Формулы приведения

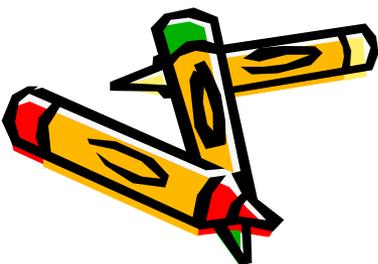
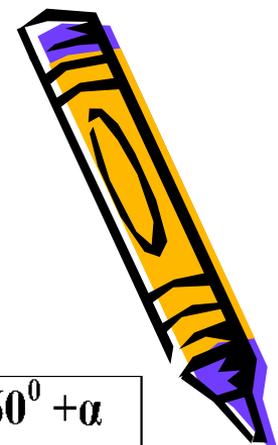


α^0	$90^0 - \alpha$	$90^0 + \alpha$	$180^0 - \alpha$	$180^0 + \alpha$	$270^0 - \alpha$	$270^0 + \alpha$	$360^0 - \alpha$	$360^0 + \alpha$
\begin{array}{l} \text{т} \\ \text{триг.} \\ \text{функция} \end{array}	$\frac{\pi}{2} - \alpha$	$\frac{\pi}{2} + \alpha$	$\pi - \alpha$	$\pi + \alpha$	$\frac{3\pi}{2} - \alpha$	$\frac{3\pi}{2} + \alpha$	$2\pi - \alpha$	$2\pi + \alpha$
sin		$\cos \alpha$	$\sin \alpha$	$-\sin \alpha$				$\sin \alpha$
cos		$-\sin \alpha$	$-\cos \alpha$	$-\cos \alpha$				$\cos \alpha$
tg		$-\text{ctg } \alpha$	$-\text{tg } \alpha$	$\text{tg } \alpha$				$\text{tg } \alpha$
ctg		$-\text{tg } \alpha$	$-\text{ctg } \alpha$	$\text{ctg } \alpha$				$\text{ctg } \alpha$



Формулы приведения

α^0	$90^0 - \alpha$	$90^0 + \alpha$	$180^0 - \alpha$	$180^0 + \alpha$	$270^0 - \alpha$	$270^0 + \alpha$	$360^0 - \alpha$	$360^0 + \alpha$
\begin{array}{l} \text{t} \\ \text{триг.} \\ \text{функция} \end{array}	$\frac{\pi}{2} - \alpha$	$\frac{\pi}{2} + \alpha$	$\pi - \alpha$	$\pi + \alpha$	$\frac{3\pi}{2} - \alpha$	$\frac{3\pi}{2} + \alpha$	$2\pi - \alpha$	$2\pi + \alpha$
sin	$\cos \alpha$	$\cos \alpha$	$\sin \alpha$	$-\sin \alpha$	$-\cos \alpha$	$-\cos \alpha$	$-\sin \alpha$	$\sin \alpha$
cos	$\sin \alpha$	$-\sin \alpha$	$-\cos \alpha$	$-\cos \alpha$	$-\sin \alpha$	$\sin \alpha$	$\cos \alpha$	$\cos \alpha$
tg	$\text{ctg } \alpha$	$-\text{ctg } \alpha$	$-\text{tg } \alpha$	$\text{tg } \alpha$	$\text{ctg } \alpha$	$-\text{ctg } \alpha$	$-\text{tg } \alpha$	$\text{tg } \alpha$
ctg	$\text{tg } \alpha$	$-\text{tg } \alpha$	$-\text{ctg } \alpha$	$\text{ctg } \alpha$	$\text{tg } \alpha$	$-\text{tg } \alpha$	$-\text{ctg } \alpha$	$\text{ctg } \alpha$



I вариант

1) $\operatorname{tg}\left(\frac{3\pi}{2} - \alpha\right) =$

а) $\operatorname{tg}\alpha$; б) $-\operatorname{ctg}\alpha$; в) $\operatorname{ctg}\alpha$; г) $-\operatorname{tg}\alpha$.

2) $\sin(\pi - \alpha) =$

а) $\sin\alpha$; б) $-\sin\alpha$; в) $\cos\alpha$; г) $-\cos\alpha$.

3) $\cos\left(\frac{\pi}{2} + \alpha\right) =$

а) $-\cos\alpha$; б) $-\sin\alpha$; в) $\cos\alpha$; г) $\sin\alpha$.

4) $\operatorname{ctg}(2\pi - \alpha) =$

а) $-\operatorname{tg}\alpha$; б) $\operatorname{ctg}\alpha$; в) $\operatorname{tg}\alpha$; г) $-\operatorname{ctg}\alpha$.

5) $\sin(90^\circ + \alpha) =$

а) $\cos\alpha$; б) $\sin\alpha$; в) $-\cos\alpha$; г) $-\sin\alpha$.

6) $\cos(180^\circ - \alpha) =$

а) $\cos\alpha$; б) $\sin\alpha$; в) $-\cos\alpha$; г) $-\sin\alpha$.

7) $\operatorname{tg}(270^\circ + \alpha) =$

а) $\operatorname{tg}\alpha$; б) $-\operatorname{ctg}\alpha$; в) $-\operatorname{tg}\alpha$; г) $\operatorname{tg}\alpha$.

8) $\operatorname{ctg}(360^\circ + \alpha) =$

а) $\operatorname{ctg}\alpha$; б) $\operatorname{tg}\alpha$; в) $-\operatorname{ctg}\alpha$; г) $-\operatorname{tg}\alpha$.

II вариант

1) $\operatorname{tg}(270^\circ - \alpha) =$

а) $\operatorname{tg}\alpha$; б) $-\operatorname{ctg}\alpha$; в) $\operatorname{ctg}\alpha$; г) $-\operatorname{tg}\alpha$.

2) $\sin(180^\circ - \alpha) =$

а) $\sin\alpha$; б) $-\sin\alpha$; в) $\cos\alpha$; г) $-\cos\alpha$.

3) $\cos(90^\circ + \alpha) =$

а) $-\cos\alpha$; б) $-\sin\alpha$; в) $\cos\alpha$; г) $\sin\alpha$.

4) $\operatorname{ctg}(360^\circ - \alpha) =$

а) $-\operatorname{tg}\alpha$; б) $\operatorname{ctg}\alpha$; в) $\operatorname{tg}\alpha$; г) $-\operatorname{ctg}\alpha$.

5) $\sin\left(\frac{\pi}{2} + \alpha\right) =$

а) $\cos\alpha$; б) $\sin\alpha$; в) $-\cos\alpha$; г) $-\sin\alpha$.

6) $\cos(\pi - \alpha) =$

а) $\cos\alpha$; б) $\sin\alpha$; в) $-\cos\alpha$; г) $-\sin\alpha$.

7) $\operatorname{tg}\left(\frac{3\pi}{2} + \alpha\right) =$

а) $\operatorname{ctg}\alpha$; б) $-\operatorname{ctg}\alpha$; в) $-\operatorname{tg}\alpha$; г) $\operatorname{tg}\alpha$.

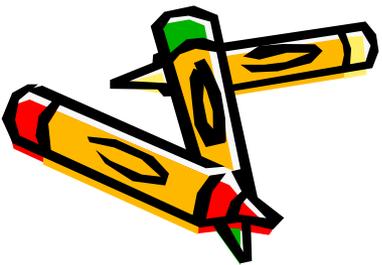
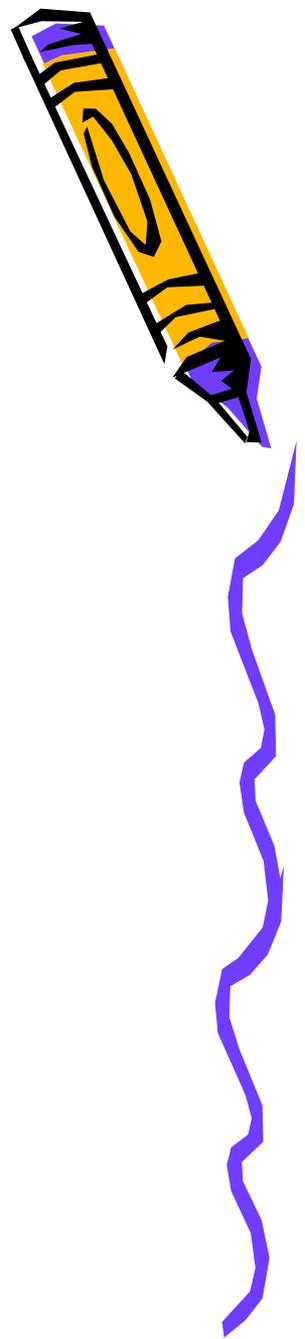
8) $\operatorname{ctg}(2\pi + \alpha) =$

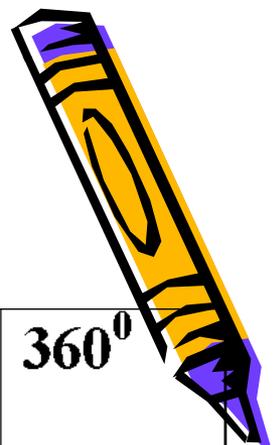
а) $\operatorname{ctg}\alpha$; б) $\operatorname{tg}\alpha$; в) $-\operatorname{ctg}\alpha$; г) $-\operatorname{tg}\alpha$.



ОТВЕТЫ

- 1) в
- 2) а
- 3) б
- 4) г
- 5) а
- 6) в
- 7) б
- 8) а





α°	0°	30°	45°	60°	90°	180°	360°
t	0	$\frac{\pi}{6}$	$\frac{\pi}{4}$	$\frac{\pi}{3}$	$\frac{\pi}{2}$	π	2π
триг. ф-я							
sin	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1	0	0
cos	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	-1	1
tg	0	$\frac{\sqrt{3}}{3}$	1	$\sqrt{3}$	-----	0	0
ctg	-----	$\sqrt{3}$	1	$\frac{\sqrt{3}}{3}$	0	-----	-----

