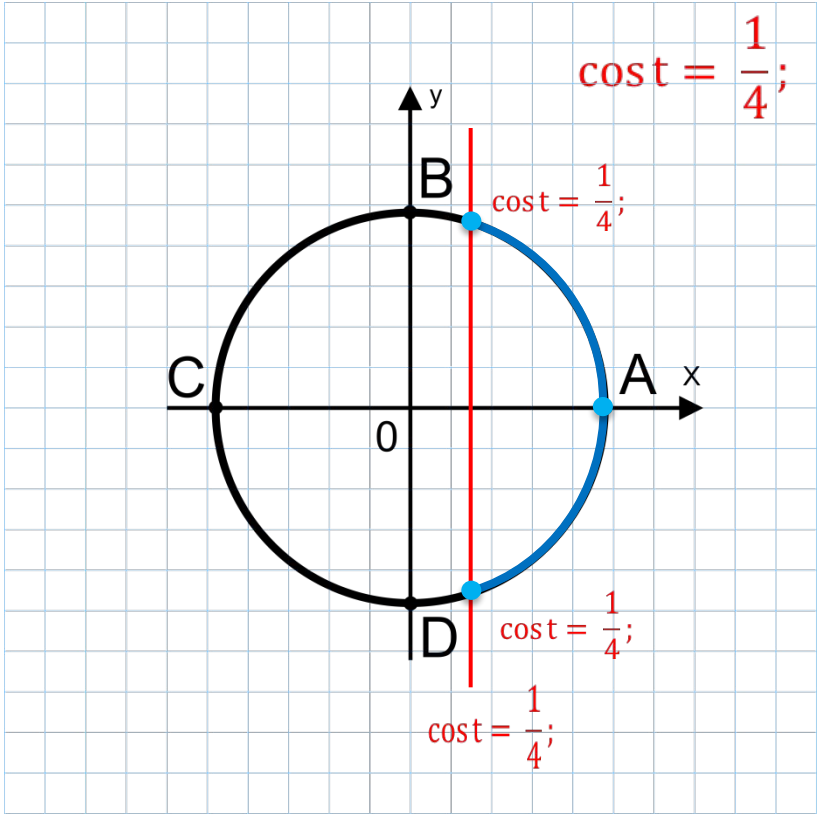
arccos



$\cos t = \frac{1}{4};$

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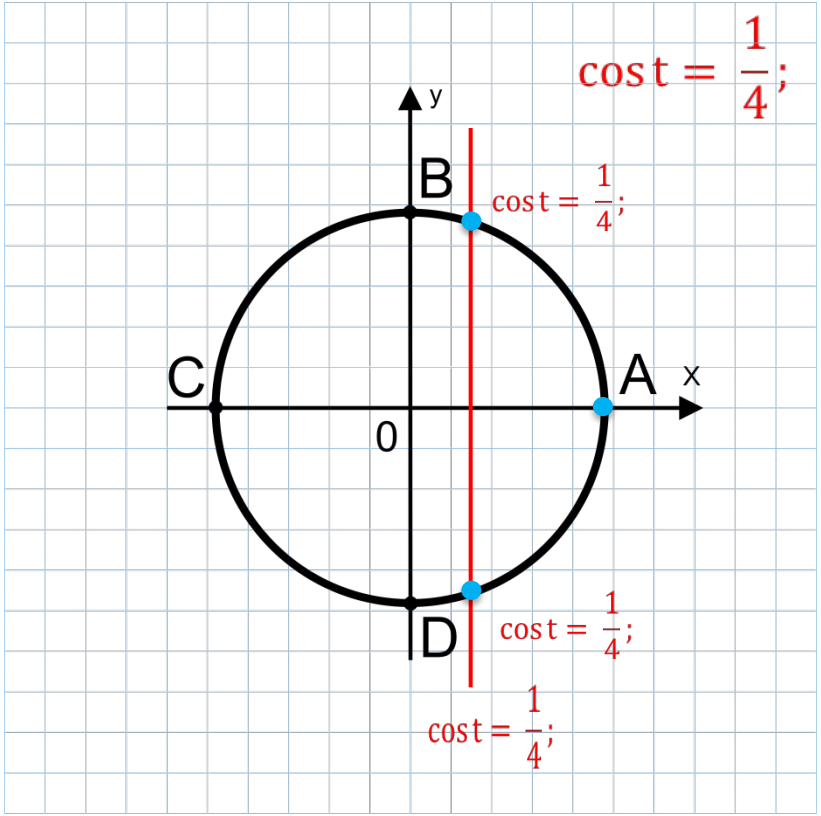
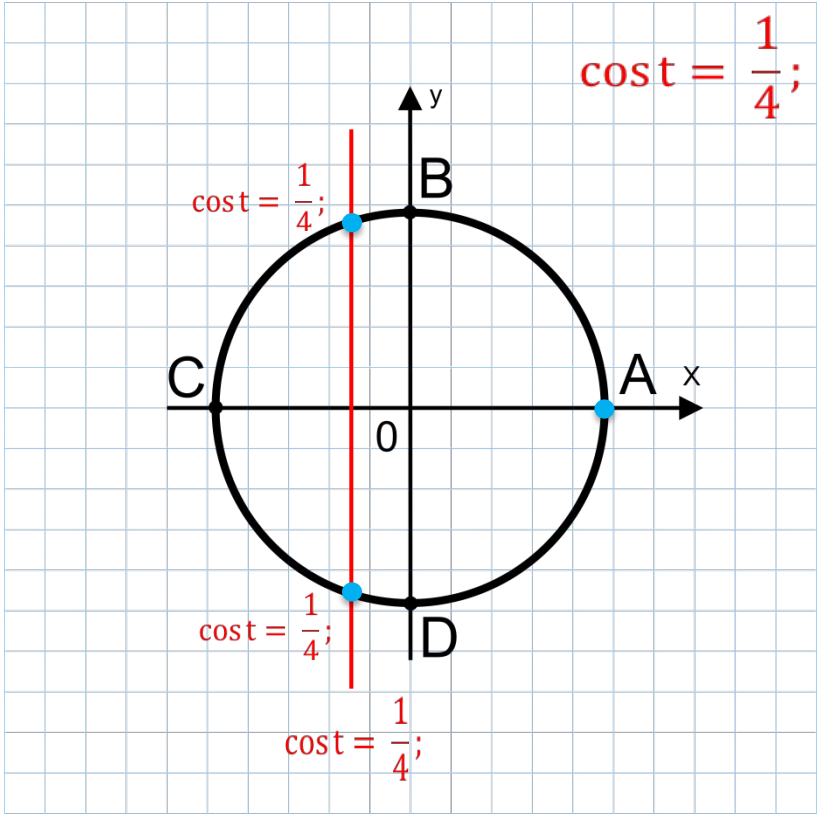


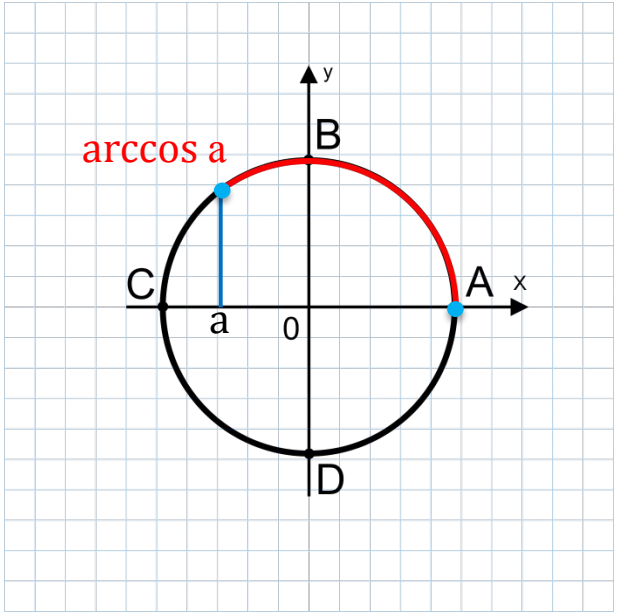
$$cost = \frac{1}{4};$$

$$\cos t = \frac{1}{4};$$



$$cost = \frac{1}{4};$$

$$\cos t = \frac{1}{4};$$



$$\cos t = a;$$

$$\cos t = \frac{1}{a};$$

$$\cos t = \frac{1}{a};$$

$\cos t = 1$: $t = 2\pi k$;

$\cos t = -1$: $t = \pi + 2\pi k$;

$\cos t = 0$: $t = + \pi k$;

$$\cos t = \frac{1}{4};$$

Решение.

$$\cos t = \frac{1}{4}; \Rightarrow \cos t = \frac{1}{4};$$

$$\cos t = \frac{1}{4}; \ \cos t = \frac{1}{4}; \ \cos t = \frac{1}{4}; \ \cos t = \frac{1}{4}; \Rightarrow$$

$$\Rightarrow \cos t = \frac{1}{4};$$

t	$\frac{\pi}{6}$	$\frac{\pi}{3}$	$\frac{2\pi}{3}$	$\frac{5\pi}{6}$	$\frac{5\pi}{3}$	$\frac{11\pi}{6}$
cos t	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$-\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$

$$\cos t = \frac{1}{4}; \quad \blacksquare$$

угол t

arccos t

t	$\frac{\pi}{6}$	$\frac{\pi}{3}$	$\frac{2\pi}{3}$	$\frac{5\pi}{6}$
cos t	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$-\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$

число, которому равен cos t

число a, от которого находится arccos t

$$\cos t = \frac{1}{4};$$

Решение.

$$\cos t = \frac{1}{4}; \Rightarrow \quad \cos t = \frac{1}{4};$$

$$\cos t = \frac{1}{4}; \cos t = \frac{1}{4}; \quad \cos t = \frac{1}{4}; \quad \cos t = \frac{1}{4}; \Rightarrow$$

$$\Rightarrow \quad \cos t = \frac{1}{4};$$

t	$\frac{\pi}{6}$	$\frac{\pi}{3}$	$\frac{2\pi}{3}$	$\frac{5\pi}{6}$	$\frac{5\pi}{3}$	$\frac{11\pi}{6}$
cos t	$\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$-\frac{1}{2}$	$-\frac{\sqrt{3}}{2}$	$\frac{1}{2}$	$\frac{\sqrt{3}}{2}$

$$\cos t = \frac{1}{4}; \quad \blacksquare$$

Теорема.

$$\cos t = -a;$$

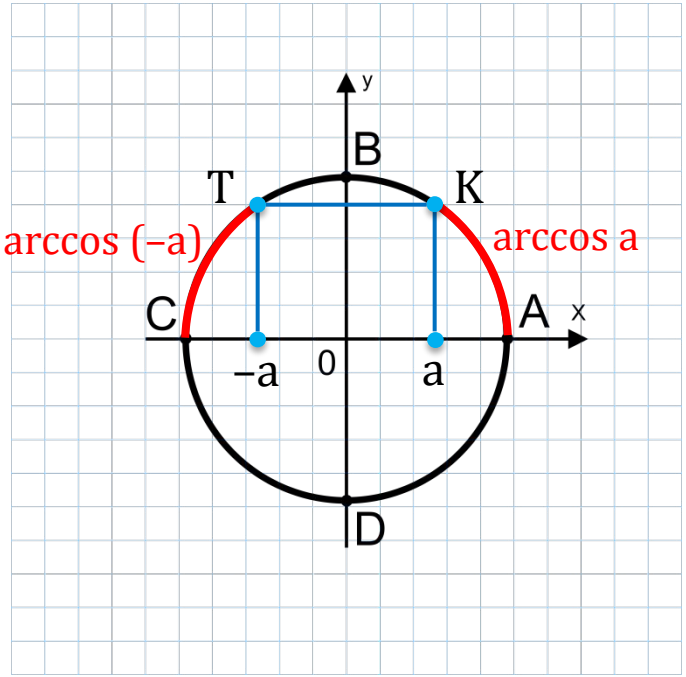
Доказательство.

$a > 0; \Rightarrow -a < 0;$

АК =

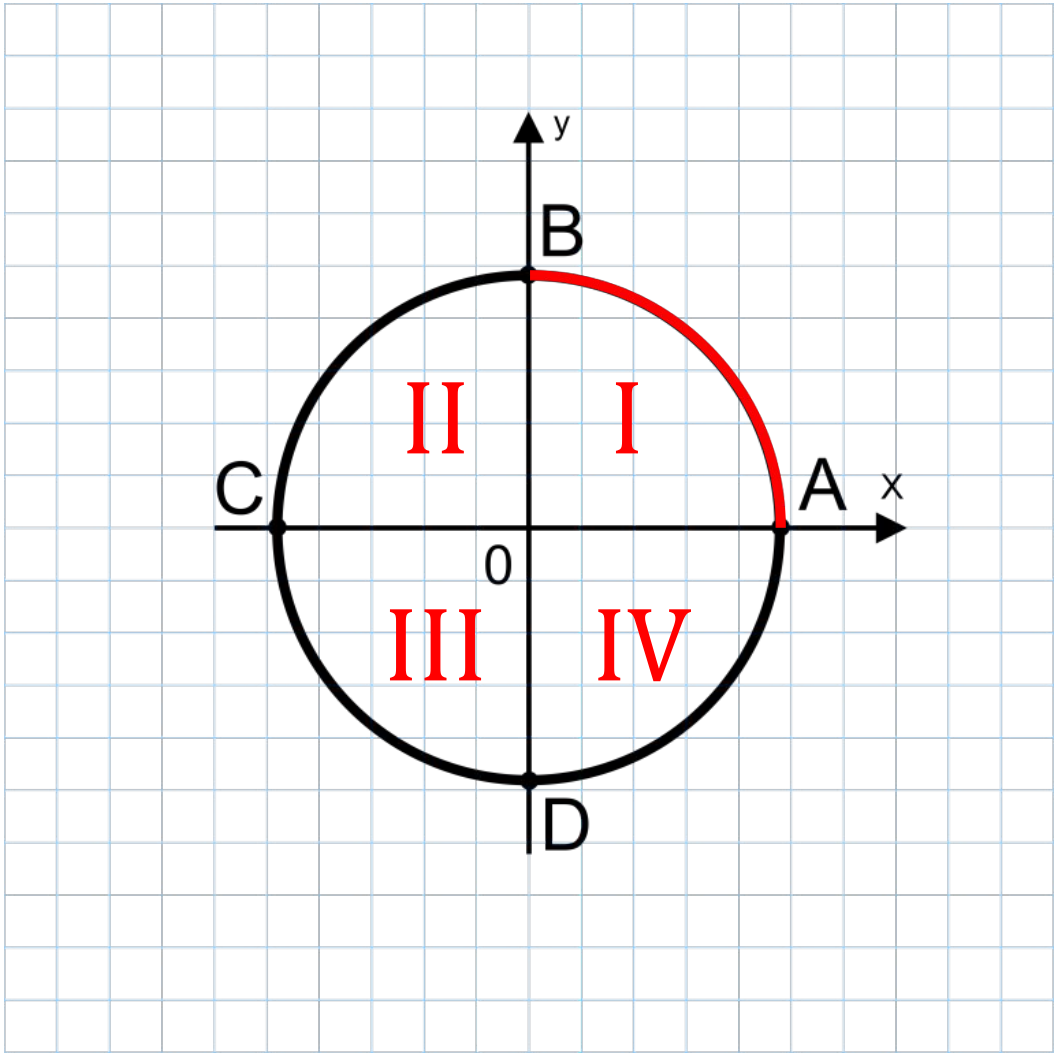
СТ;

arcos a + arcos (–a) = АК + АТ= ТС + АТ = π.

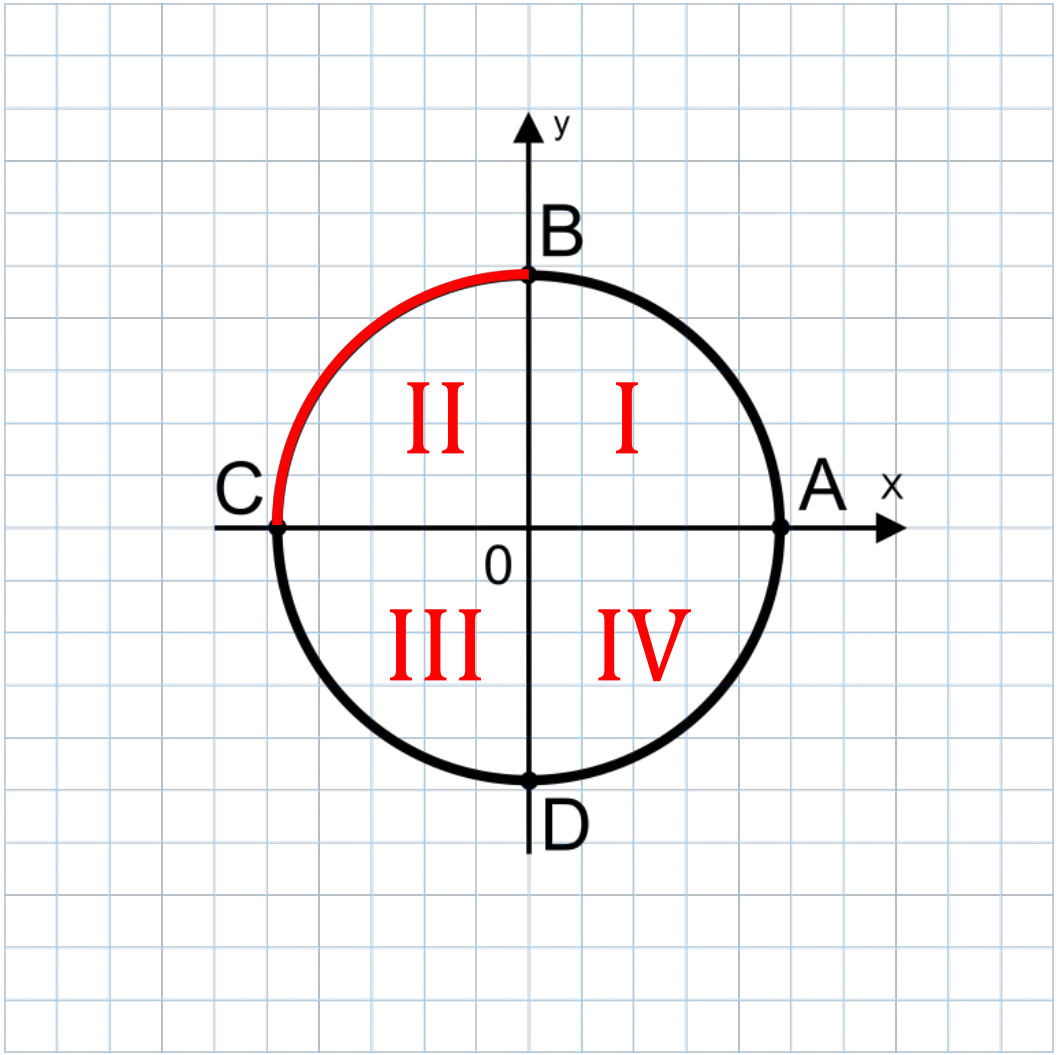


$$cost = \frac{1}{4};$$

$a > 0;$



$a < 0;$



$$\cos t = \frac{1}{4};$$

Решение.

$$\cos t = \frac{1}{4};$$

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Решение.

$\cos t = \frac{1}{4};$

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