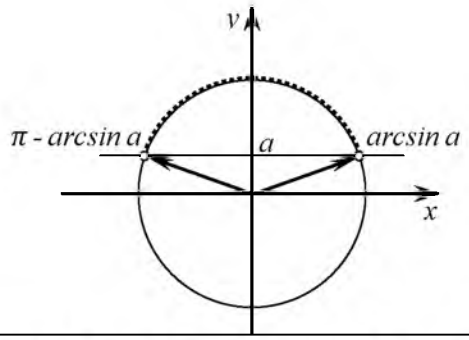
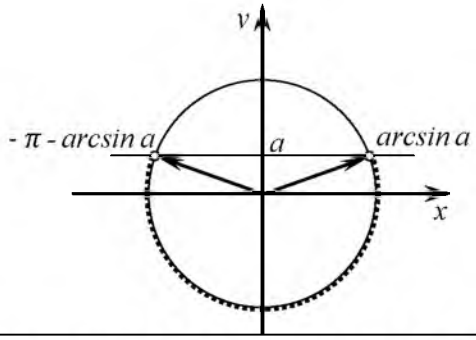
Решение тригонометрических неравенств

$\sin t > a$



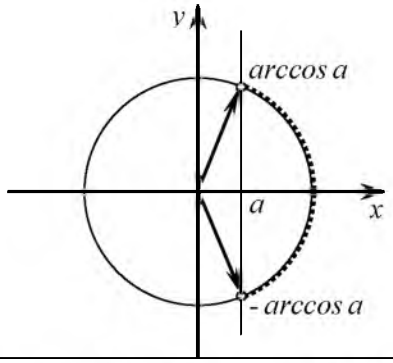
$$\arcsin a + 2\pi n < t < \pi - \arcsin a + 2\pi n,\ n \in \mathbf{Z}$$

$\sin t < a$



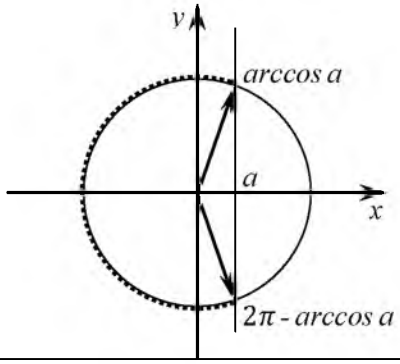
$$-\pi - \arcsin a + 2\pi n < t < \arcsin a + 2\pi n,\ n \in \mathbf{Z}$$

$\cos t > a$



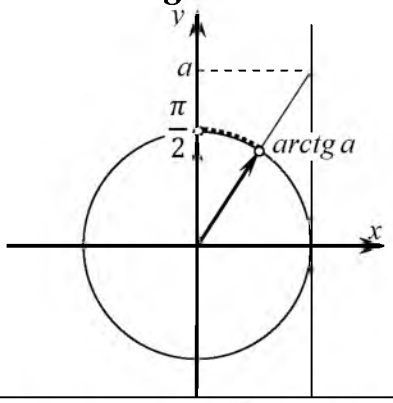
$$-\arccos a + 2\pi n < t < \arccos a + 2\pi n,\ n \in \mathbf{Z}$$

$\cos t < a$



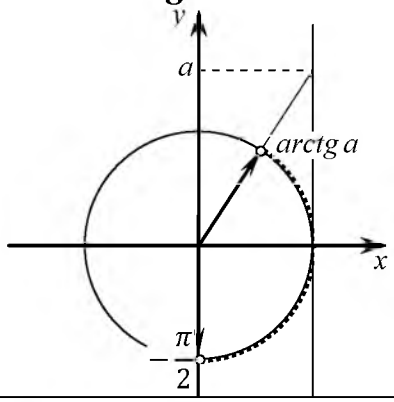
$$\arccos a + 2\pi n < t < 2\pi - \arccos a + 2\pi n,\ n \in \mathbf{Z}$$

$\operatorname{tg} t > a$



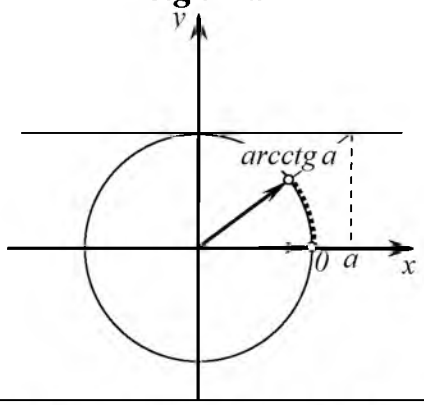
$$\operatorname{arctg} a + \pi n < t < \frac{\pi}{2} + \pi n,\ n \in \mathbf{Z}$$

$\operatorname{tg} t < a$



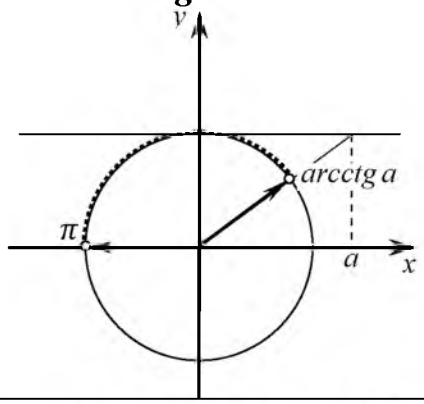
$$-\frac{\pi}{2} + \pi n < t < \operatorname{arctg} a + \pi n,\ n \in \mathbf{Z}$$

$\operatorname{ctg} t > a$



$$\pi n < t < \operatorname{arcctg} a + \pi n,\ n \in \mathbf{Z}$$

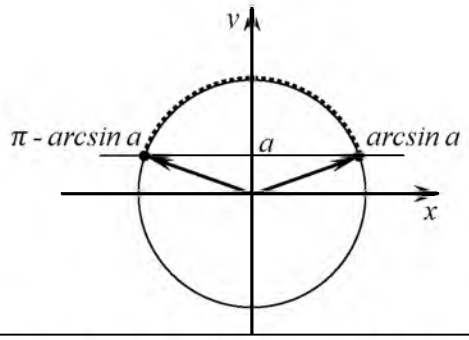
$\operatorname{ctg} t < a$



$$\operatorname{arcctg} a + \pi n < t < \pi + \pi n,\ n \in \mathbf{Z}$$

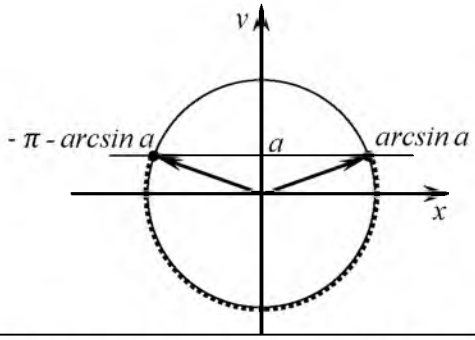
Решение тригонометрических неравенств

$\sin t \geq a$



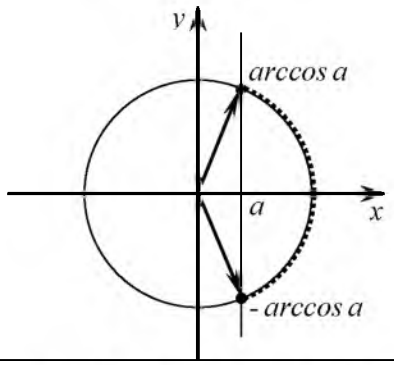
$$\arcsin a + 2\pi n \leq t \leq \pi - \arcsin a + 2\pi n,\ n \in \mathbf{Z}$$

$\sin t \leq a$



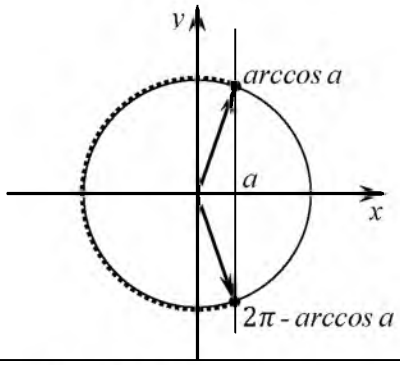
$$-\pi - \arcsin a + 2\pi n \leq t \leq \arcsin a + 2\pi n,\ n \in \mathbf{Z}$$

$\cos t \geq a$



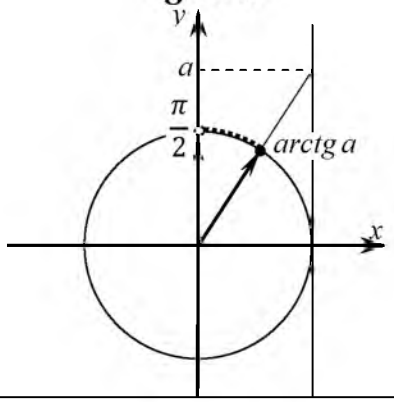
$$-\arccos a + 2\pi n \leq t \leq \arccos a + 2\pi n,\ n \in \mathbf{Z}$$

$\cos t \leq a$



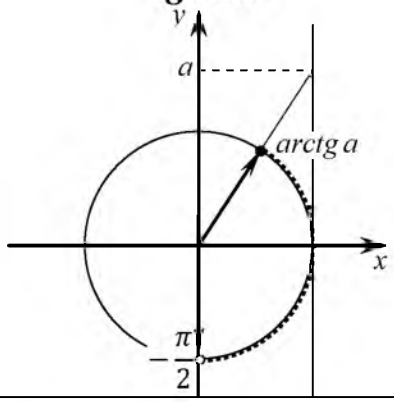
$$\arccos a + 2\pi n \leq t \leq 2\pi - \arccos a + 2\pi n,\ n \in \mathbf{Z}$$

$\operatorname{tg} t \geq a$



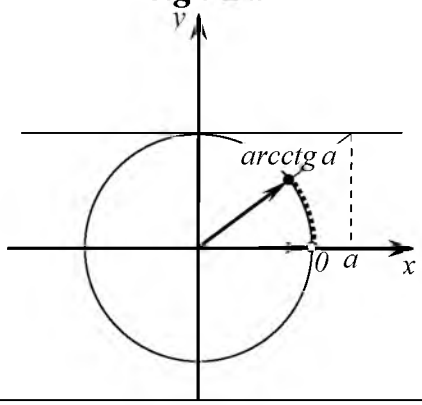
$$\operatorname{arctg} a + \pi n \leq t < \frac{\pi}{2} + \pi n,\ n \in \mathbf{Z}$$

$\operatorname{tg} t \leq a$



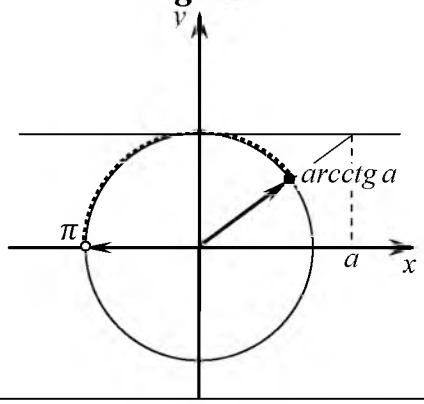
$$-\frac{\pi}{2} + \pi n < t \leq \operatorname{arctg} a + \pi n,\ n \in \mathbf{Z}$$

$\operatorname{ctg} t \geq a$



$$\pi n < t \leq \operatorname{arcctg} a + \pi n,\ n \in \mathbf{Z}$$

$\operatorname{ctg} t \leq a$



$$\operatorname{arcctg} a + \pi n \leq t < \pi + \pi n,\ n \in \mathbf{Z}$$