0도 삼각비

$$\sin \alpha = \overline{AB}$$
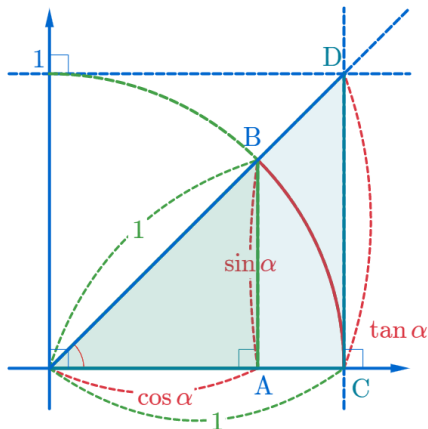
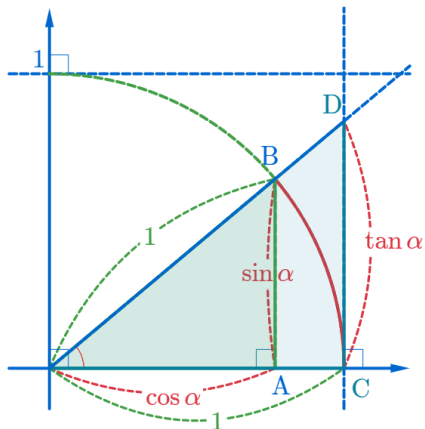$$\cos \alpha = \overline{OA}$$

$$\tan \alpha = \overline{CD}$$

$$\alpha = 45°$$

$$\sin\alpha = \overline{AB} = 0.7071067811865476$$

$$\cos\alpha = \overline{OA} \approx 0.7071067811865476$$
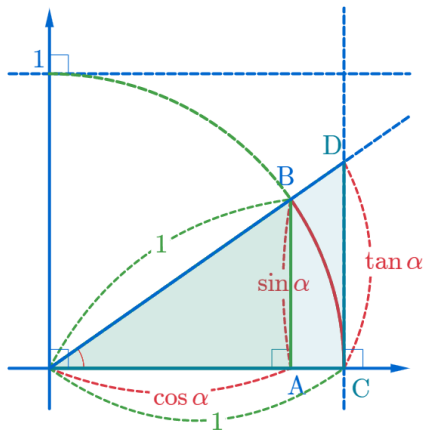
$$\tan\alpha = \overline{CD} = 1$$

$$\alpha = 40°$$

$$\sin \alpha = \overline{AB} \approx 0.6427876096865393$$

$$\cos \alpha = \overline{OA} \approx 0.766044443118978$$

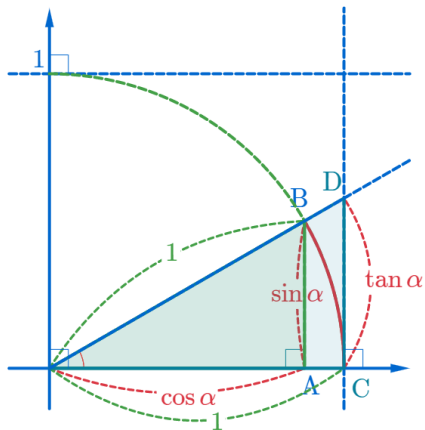$$\tan \alpha = \overline{CD} \approx 0.8390996311772799$$

$$\alpha = 35°$$

$$\sin \alpha = \overline{AB} \approx 0.573576436351046$$

$$\cos \alpha = \overline{OA} \approx 0.8191520442889918$$
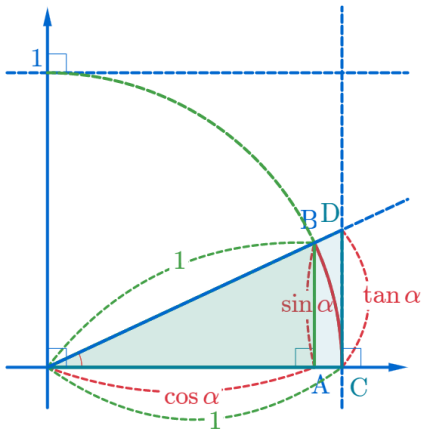
$$\tan \alpha = \overline{CD} \approx 0.7002075382097097$$

$$\alpha = 30°$$

$$\sin \alpha = \overline{AB} = 0.5$$

$$\cos \alpha = \overline{OA} \approx 0.8660254037844387$$
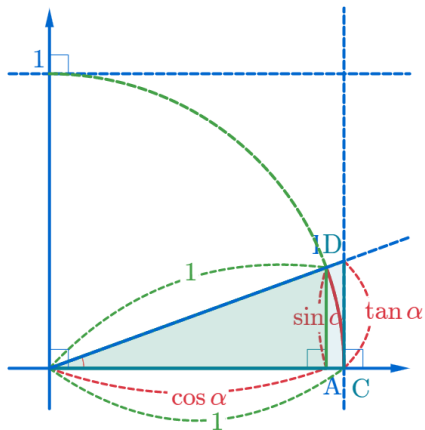
$$\tan \alpha = \overline{CD} \approx 0.5773502691896257$$

$$\alpha = 25°$$

$$\sin \alpha = \overline{AB} \approx 0.42261826174069944$$

$$\cos \alpha = \overline{OA} \approx 0.9063077870366499$$

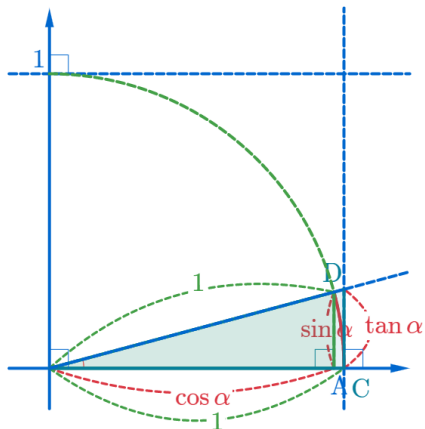$$\tan \alpha = \overline{CD} \approx 0.4663076581549986$$

$$\alpha = 20°$$

$$\sin \alpha = \overline{AB} \approx 0.3420201433256687$$

$$\cos \alpha = \overline{OA} \approx 0.9396926207859084$$

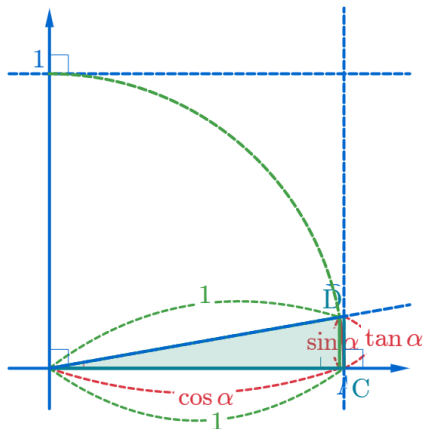$$\tan \alpha = \overline{CD} \approx 0.36397023426620234$$

$$\alpha = 15°$$

$$\sin\alpha = \overline{AB} \approx 0.25881904510252074$$

$$\cos\alpha = \overline{OA} \approx 0.9659258262890683$$
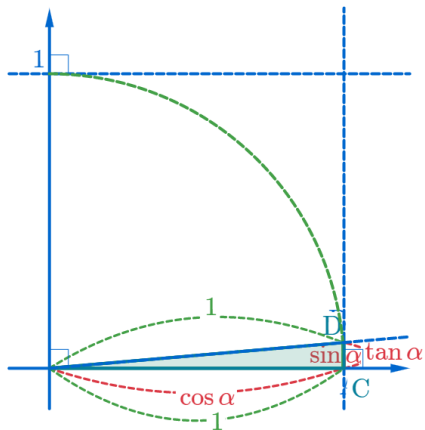
$$\tan\alpha = \overline{CD} \approx 0.2679491924311227$$

$$\alpha = 10°$$

$$\sin \alpha = \overline{AB} \approx 0.17364817766693033$$

$$\cos \alpha = \overline{OA} \approx 0.984807753012208$$

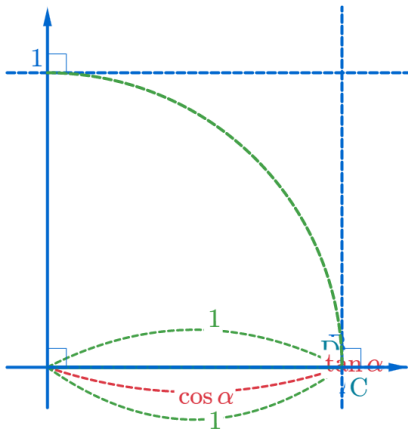$$\tan \alpha = \overline{CD} \approx 0.17632698070846498$$

$$\alpha = 5^{\circ}$$

$$\sin\alpha = \overline{AB} \approx 0.08715574274765817$$

$$\cos\alpha = \overline{OA} \approx 0.9961946980917455$$

$$\tan\alpha = \overline{CD} \approx 0.08748866352592401$$

$$\alpha = 0^\circ$$

$$\sin \alpha = \overline{\mathrm{AB}} = 0$$

정의한다.
(Define.)

$$\cos \alpha = \overline{\mathrm{OA}} = 1$$

$$\tan \alpha = \overline{\mathrm{CD}} = 0$$