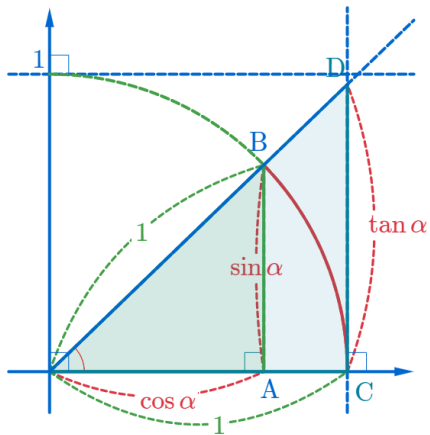


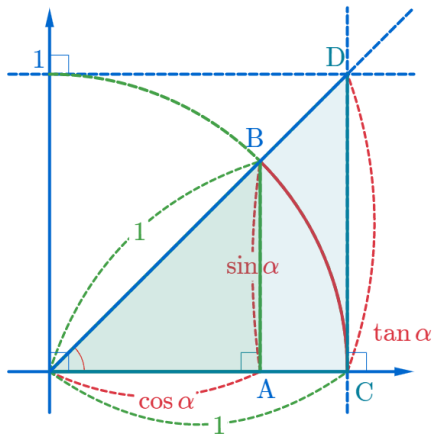
# 90도 삼각비



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

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

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

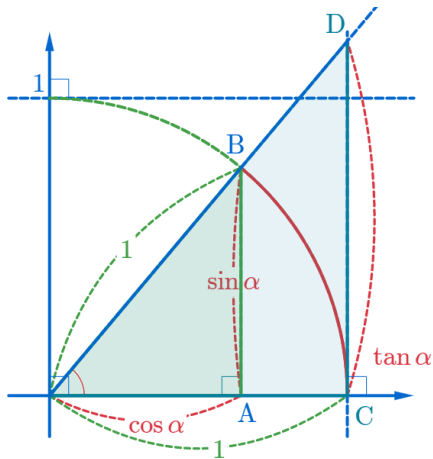


$$\alpha = 45^\circ$$

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

$$\cos \alpha = \overline{OA} \approx 0.7071067811865476$$

$$\tan \alpha = \overline{CD} = 1$$

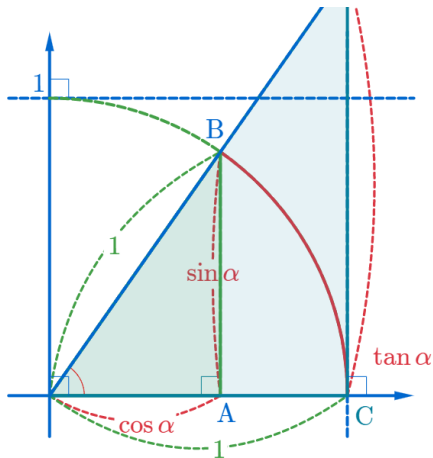


$$\alpha = 50^\circ$$

$$\sin \alpha = \overline{AB} \approx 0.766044443118978$$

$$\cos \alpha = \overline{OA} \approx 0.6427876096865394$$

$$\tan \alpha = \overline{CD} \approx 1.19175359259421$$



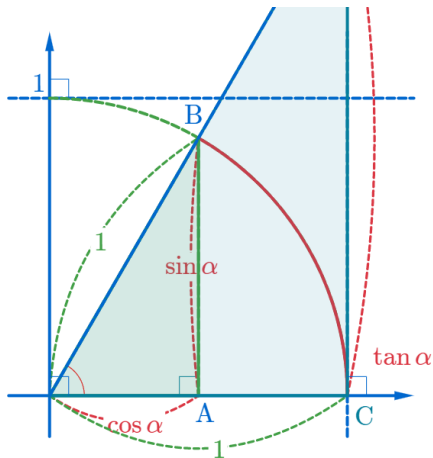
$$\alpha = 55^\circ$$

$$\sin \alpha = \overline{AB} \approx 0.8191520442889918$$

$$\cos \alpha = \overline{OA} \approx 0.573576436351046$$

$$\tan \alpha = \overline{CD} \approx 1.4281480067421144$$

## 90도 삼각비



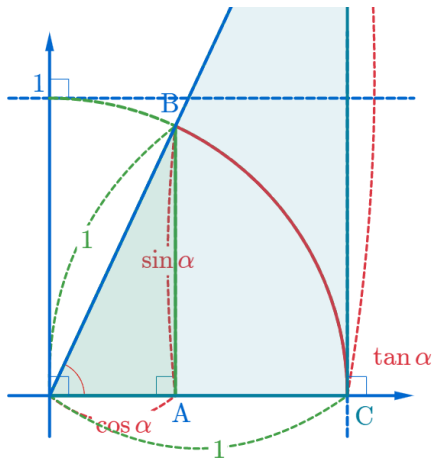
$$\alpha = 60^\circ$$

$$\sin \alpha = \overline{AB} \approx 0.8660254037844386$$

$$\cos \alpha = \overline{OA} = 0.5$$

$$\tan \alpha = \overline{CD} \approx 1.7320508075688767$$

## 90도 삼각비

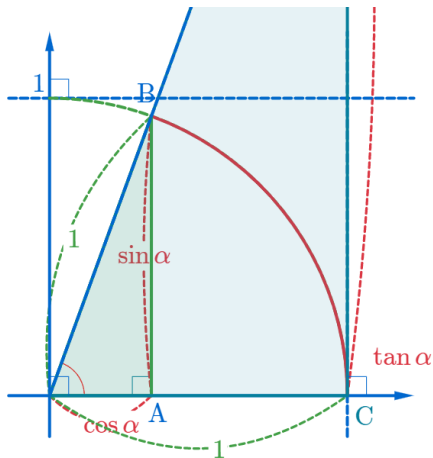


$$\alpha = 65^\circ$$

$$\sin \alpha = \overline{AB} \approx 0.9063077870366499$$

$$\cos \alpha = \overline{OA} \approx 0.42261826174069944$$

$$\tan \alpha = \overline{CD} \approx 2.1445069205095586$$



$$\alpha = 70^\circ$$

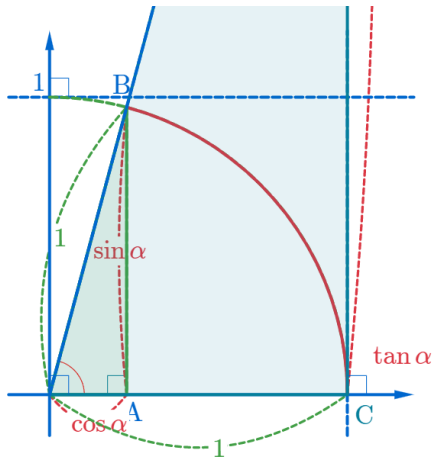
$$\sin \alpha = \overline{AB} \approx 0.9396926207859083$$

$$\cos \alpha = \overline{OA} \approx 0.3420201433256688$$

$$\tan \alpha = \overline{CD} \approx 2.7474774194546216$$



## 90도 삼각비

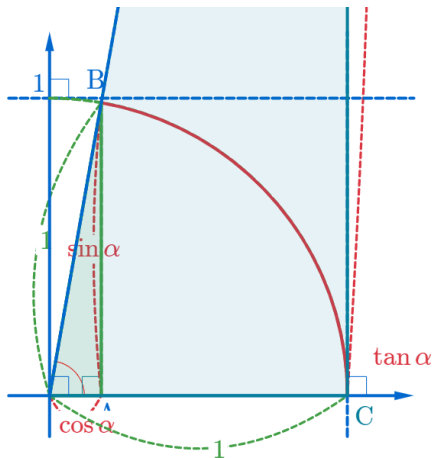


$$\alpha = 75^\circ$$

$$\sin \alpha = \overline{AB} \approx 0.9659258262890683$$

$$\cos \alpha = \overline{OA} \approx 0.25881904510252074$$

$$\tan \alpha = \overline{CD} \approx 3.7320508075688776$$

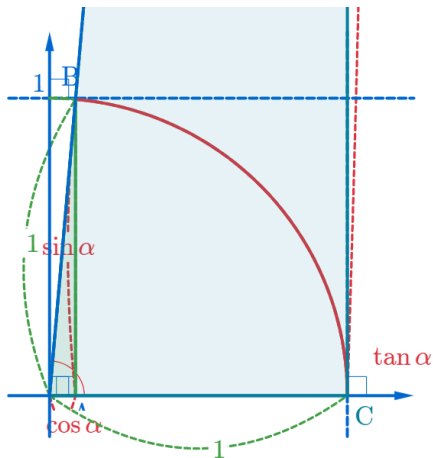


$$\alpha = 80^\circ$$

$$\sin \alpha = \overline{AB} \approx 0.984807753012208$$

$$\cos \alpha = \overline{OA} \approx 0.17364817766693041$$

$$\tan \alpha = \overline{CD} \approx 5.671281819617707$$

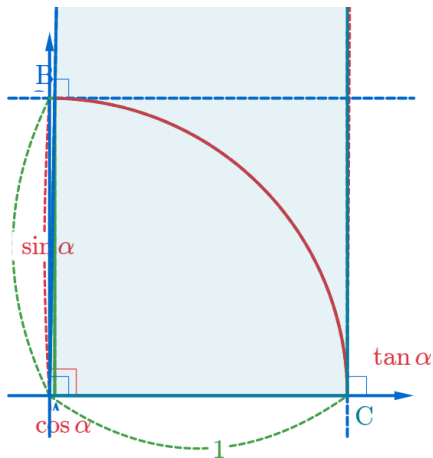


$$\alpha = 85^{\circ}$$

$$\sin \alpha = \overline{AB} \approx 0.9961946980917455$$

$$\cos \alpha = \overline{OA} \approx 0.08715574274765836$$

$$\tan \alpha = \overline{CD} \approx 11.43005230276132$$



$$\alpha = 90^\circ$$

$$\sin \alpha = \overline{AB} = 1$$

정의한다.  
(Define.)

$$\cos \alpha = \overline{OA} = 0$$

$\tan \alpha$  정의하지 않는다.  
(Do not define.)