

No. _____
Date: _____

	Besarnya sudut α				
	0°	30°	45°	60°	90°
$\sin \alpha^\circ$	0	$\frac{1}{2}$	$\frac{1}{2}\sqrt{2}$	$\frac{1}{2}\sqrt{3}$	1
$\cos \alpha^\circ$	1	$\frac{1}{2}\sqrt{3}$	$\frac{1}{2}\sqrt{2}$	$\frac{1}{2}$	0
$\tan \alpha^\circ$	0	$\frac{1}{3}\sqrt{3}$	1	$\sqrt{3}$	-
$\cot \alpha^\circ$	-	$\sqrt{3}$	1	$\frac{1}{3}\sqrt{3}$	0
$\sec \alpha^\circ$	1	$\frac{2}{3}\sqrt{3}$	$\sqrt{2}$	2	-
$\csc \alpha^\circ$	-	2	$\sqrt{2}$	$\frac{2}{3}\sqrt{3}$	1

- Rumus perkalian Trigonometri untuk sinus dan cosinus
misalkan diketahui 2 sudut yaitu A dan B berikut
Rumus perkalian antara sinus dan cosinus pada sudut A
dan B :

$$\sin A \cos B = \frac{1}{2} [\sin (A+B) + \sin (A-B)]$$

$$\cos A \sin B = \frac{1}{2} [\sin (A+B) - \sin (A-B)]$$

$$\cos A \cos B = \frac{1}{2} [\cos (A+B) + \cos (A-B)]$$

$$\sin A \sin B = -\frac{1}{2} [\cos (A+B) - \cos (A-B)]$$

- Rumus Trigonometri penjumlahan dan pengurangan

$$\sin P + \sin Q = 2 \sin \frac{1}{2}(P+Q) \cos \frac{1}{2}(P-Q)$$

$$\sin P - \sin Q = 2 \cos \frac{1}{2}(P+Q) \sin \frac{1}{2}(P-Q)$$

$$\cos P + \cos Q = 2 \cos \frac{1}{2}(P+Q) \cos \frac{1}{2}(P-Q)$$

$$\cos P - \cos Q = -2 \sin \frac{1}{2}(P+Q) \sin \frac{1}{2}(P-Q)$$

$$\tan P + \tan Q = \frac{2 \sin (P+Q)}{\cos (P+Q) + \cos (P-Q)}$$

$$\tan P - \tan Q = \frac{2 \sin (P-Q)}{\cos (P+Q) + \cos (P-Q)}$$

- Rumus pembagian Trigonometri

$$\sin x + \sin y = 2 \sin \left(\frac{x+y}{2} \right) \cos \left(\frac{x-y}{2} \right)$$

$$\cos x + \cos y = 2 \cos \left(\frac{x+y}{2} \right) \cos \left(\frac{x-y}{2} \right)$$

$$\cos x - \cos y = -2 \sin \left(\frac{x+y}{2} \right) \sin \left(\frac{x-y}{2} \right)$$