Sum + DIFFERENCE | DENTITIES

$$COS(A+B) = COSACOSB - SINASINB$$
 $COS(A-B) = COSACOSB + SINASINB$ 
 $COS(30°+60°) = COS30°COS60° - SIN30°SIN60°$ 
 $O = \frac{1}{2} \cdot \frac{1}{2} - \frac{1}{2} \cdot \frac{1}{2}$ 
 $SIN(A+B) = SINACOSB + COSASINB$ 
 $SIN(A-B) = SINACOSB - COSASINB$ 
 $SIN(A+B) = \frac{1}{2} \cdot \frac{1}{2$ 

TOR F

Sin 70° = 
$$Sm 20^{\circ} cos 50^{\circ} - cos 20^{\circ} sin 50^{\circ}$$
 $Sin (90^{\circ} - 500^{\circ}) = Sin (-30^{\circ})$ 
 $Sin (90^{\circ} - 500^{\circ}) = Sin (-30^{\circ})$ 

Find 
$$\cos(4+B)$$
 given  $\tan A = -\frac{15}{2} \cos B = -\frac{3}{7} \cos B$ 
 $1 \le A \le T$  and  $3 = -\frac{3}{2} = -\frac{3}{7} = -\frac{1}{7} = -\frac{1}{7}$ 

Verify. 
$$Sin(A+B)$$

$$Sin(X+y) = fan X + fany$$
 $Cos X cos y$ 

$$Sin X cos y + cos X Sin y = cos X cos X cos X cos X cos X cos X cos Y cos X cos X cos Y cos X c$$