



tan
$$(a+b) = \frac{\tan a + \tan b}{1 + \tan a + \tan b}$$

tan $(a-b) = \frac{\tan a - \tan b}{1 + \tan a + \tan b}$

tan $(5\pi) = \tan \pi = \frac{\tan 5\pi}{6} = \tan \pi = \frac{\tan \pi}{6}$
 $= \tan \pi = -\tan \pi = -1$
 $= -\tan \pi = -1$
 $= -\tan \pi = -1$

Sum to product. Sina + Sinb = 2 Sin(a+b) (05(a-b) Sina - Sinb = 2 Sin (a-b) (05(a+b) $\cos a + \cosh = 2 \cos(\frac{a+b}{2}) \cos(\frac{a-b}{2})$ cosa - cosb = - 2 Sin (a+b) Sin (a-b) LOS (b+TT) = - LOSb $= 2 \cos \left(a + b + iT \right) \cos \left(a - b - iT \right)$ $= 2 \cos \left(\frac{\pi}{2} + \frac{a+b}{2} \right) \cdot \cos \left(-\frac{\pi}{2} + \frac{a-b}{2} \right).$ = -2 Sin(a+b) Sin(a-b) COS 195 + WS 105 = 2 WS (150) WS 45. = $2 (05 (180-30) \sqrt{2}$ = $2 (-6530) \sqrt{2} = 2(-\frac{15}{2}) \sqrt{2} = (-\frac{1}{2})$