

Ex. 8)  $\tan\left(\frac{-7\pi}{12}\right) = \underline{\hspace{10em}}$

Example 9) Given  $0 < \alpha < \frac{\pi}{2}$  with  $\cos \alpha = \frac{3}{5}$ , and  $\frac{\pi}{2} < \beta < \pi$  with  $\sin \beta = \frac{5}{13}$ .  
Find the following EXACT VALUES.

$\sin \alpha$	$\cos \beta$	$\tan \alpha$	$\tan \beta$
$\cos(\alpha + \beta)$ $\frac{-56}{65}$		$\cos(\alpha - \beta)$ $\frac{-16}{65}$	
$\sin(\alpha - \beta)$ $\frac{-63}{65}$		$\sin(\alpha + \beta)$ $\frac{-33}{65}$	
$\tan(\alpha - \beta)$ $\frac{63}{16}$		$\sec(\alpha + \beta)$ $\frac{-65}{56}$	
$\cot(\alpha - \beta)$ $\frac{16}{63}$		$\csc(\alpha - \beta)$ $\frac{-65}{63}$	