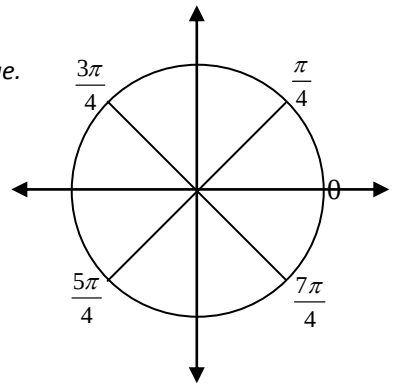
DERIVATIVES OF TRIG FUNCTIONS

Fill in each table. Sketch each function. Sketch the tangent associated with each derivative (slope) value. Fill in the blanks.

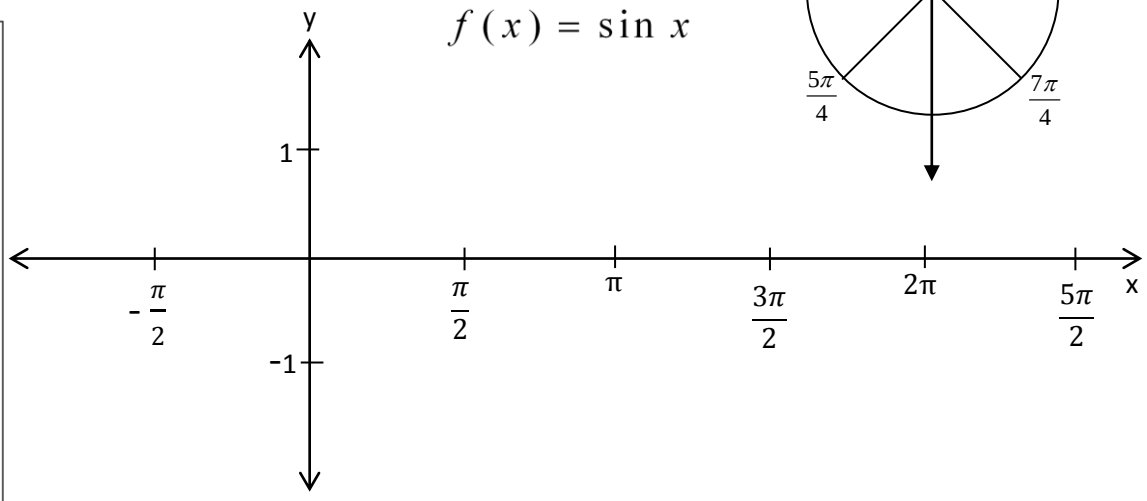
x = θ radians



f(x) *f'(x)*

x	y	y'
$-\frac{\pi}{2}$		
0		
$\frac{\pi}{2}$		
π		
$\frac{3\pi}{2}$		
2π		
$\frac{5\pi}{2}$		

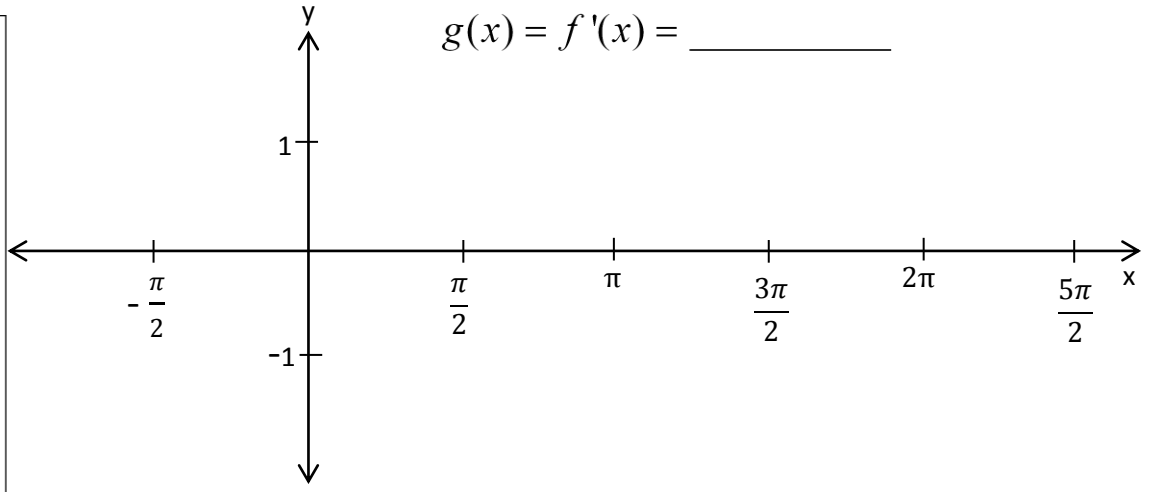
$f(x) = \sin x$



g(x) *g'(x)*

x	y	y'
$-\frac{\pi}{2}$		
0		
$\frac{\pi}{2}$		
π		
$\frac{3\pi}{2}$		
2π		
$\frac{5\pi}{2}$		

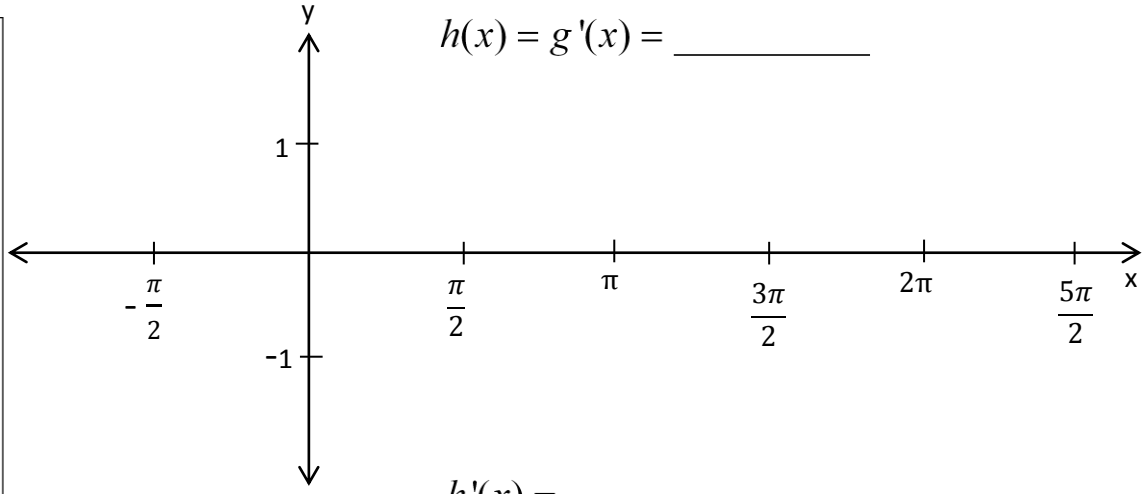
$g(x) = f'(x) =$ _____



h(x) *h'(x)*

x	y	y'
$-\frac{\pi}{2}$		
0		
$\frac{\pi}{2}$		
π		
$\frac{3\pi}{2}$		
2π		
$\frac{5\pi}{2}$		

$h(x) = g'(x) =$ _____



$h'(x) =$ _____