

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)

Let f be an **odd** continuous function with $f(1) = 1$. If $F(x) = \int_{-x}^x tf(t)dt$, then $F'(1)$ is equal to:

a/ 1	
b/ 2	
c/ -1	
d/ -2	
e/ 0	

Exercise 2 (5 points)

The value of the definite integral $\int_{-\pi/2}^0 \frac{\sin x}{1 + \cos x} dx$ is:

a/ $\ln 2$	
b/ $-\ln 2$	
c/ $\frac{\pi}{4}$	
d/ $-\frac{\pi}{4}$	
e/ 0	

NAME: _____ ID: _____ Section: _____

Exercise 1 (5 points)The value of the definite integral $\int_0^{\frac{\pi}{2}} \frac{\cos x}{1 + \sin x} dx$ is:

a/ln 2	
b/ln 4	
c/ln 3	
d/ $\frac{1}{2}$	
e/ $\frac{3}{2}$	

Exercise 2 (5 points)Let f be an **odd** continuous function with $f(2) = 1$. If $F(x) = \int_{-x}^x tf(t)dt$, then $F'(2)$ is equal to:

a/4	
b/2	
c/-4	
d/-2	
e/0	

