

PRINT Your Name: _____

Quiz – August 29, 2006

Find $\int_0^{\pi/4} 4 \sin x \cos x dx$.

Answer: The integral is equal to

$$2 \sin^2 x \Big|_0^{\pi/4} = 2\left(\frac{\sqrt{2}}{2}\right)^2 = \boxed{1}.$$