

Name: _____

Math 135, Quiz #12, May 5, 2014

1. Let $F(x) = \int_{\pi}^{2x} \cos^2(t) \sin^2(t) \, dt$. Find $F'(x)$.

2. Compute the following integrals:

a. $\int (x+1) \sin(x^2 + 2x - 3) \, dx$.

b. $\int_0^2 x \sqrt{2x+1} \, dx$.