

Name: \_\_\_\_\_

Math 121

Self-Assessment Quiz #3B

Week 3

- Please see the course webpage for the answer key.

1. Compute  $\int x^4 \arcsin x \, dx =$

2. Show that  $\int_0^{\frac{\pi}{2}} \frac{\cos x}{(\sin^2 x + 1)^{\frac{7}{2}}} \, dx = \frac{43}{60\sqrt{2}}$

3. Compute  $\int \frac{1}{(x^2 + 4)^2} \, dx =$