

Math 182

Quiz 6

Name: _____

February 18, 2003

Multiple Choice. Circle the correct evaluation of the following integrals:

1. $\int_0^\infty \frac{2x dx}{(x^2 + 1)^2}$

- (a) 0
- (b) 1
- (c) -1
- (d) Divergent
- (e) None of the above

2. $\int_2^\infty \frac{dx}{x^{1/4}}$

- (a) 2
- (b) $\frac{\sqrt{2}}{2}$
- (c) 0
- (d) Divergent
- (e) None of the above

3. $\int_0^2 \frac{dx}{\sqrt{|x-1|}}$

- (a) 4
- (b) 0
- (c) 2
- (d) $2\sqrt{2}$
- (e) Divergent
- (f) None of the above