

Math 141 Final Exam

Fall 2004 Answers

1.a, 2.e, 3.e, 4.d, 5.a (or c), 6.d, 7.c, 8.a, 9.b, 10.e, 11.d, 12.b, 13.b, 14.e, 15.b
16.e, 17.d, 18.a, 19.d, 20.d

21.A, 22. C, 23.D

24.a, 25.e, 26.b, 27.c

28. $-\frac{\pi}{2}$

29.(a) $f^{(n)}(0) = 3^n$

(b) $\sum_{n=0}^{\infty} \frac{3^n}{n!} x^n$

(c) $R = \infty$