

MATH 141

EXAM 2

SPRING 2006

ITEM NO. FORM:

	A
1	D
2	D
3	C
4	E
5	C
6	A
7	A
8	E
9	B
10	B
11	C
12	D
13	A
14	A
15	D
16	C
17	A

13-17.

13. A (Telescoping Series)

14. A (Ratio Test)

15. D (Test for Divergence)

16. C (Comparison Test and Alternating Series Test)

17. A (Root Test)

18. converges to  $\frac{1}{4}$

19.

(a) converges to 0 (Squeeze Theorem)

(b) diverges;  $\lim_{n \rightarrow \infty} a_n$  d.n.e.

(c) converges to 5

(d) converges to 0

(e) diverges;  $\lim_{n \rightarrow \infty} a_n = \infty$