

Answer Key

Math 1272 Fall 2001 Final Exam

Multiple Choice Problems

1. B
2. E
3. D
4. C
5. B
6. C
7. A
8. A
9. A
10. C
11. C
12. C
13. D
14. B
15. A (Stewart's usage)

Written Answer Problems

16. the series converges
17.
 - a) see solution set
 - b) $(-4, 2), (-2, -2)$ c) $(0, 0), (-4, -2)$
 - d) $t: (-\infty, -1), (0, 1), (2, \infty)$
 - e) $t: (-1, 0), (1, 2)$ f) see graph below
18.

radius of convergence: 2
interval of convergence: $[-1, 3]$
19. three terms are sufficient (to $n = 2$)
20. the volume is zero (that is to say, the three vectors AB, AC, and AD all lie in one plane)

graph for #17(f):

