

## Answer Key

### Math 1272 undated (2002?) Final Exam

#### Multiple Choice Problems

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

#### Written Answer Problems

16. the series converges
17. radius of convergence,  $R = \frac{1}{2}$  ;  
interval of convergence:  $[-\frac{1}{2}, \frac{1}{2})$
18.  $2 \ln 5 - 2 \ln 4 - \ln 2$  or  $\ln(25/32)$
19.  $\frac{1}{2}$
20.  $\alpha < 3$
21.  $13x - 17y - 7z = 42$
22.  $y(0) = 2e^3 + 5$