Math 6301 Homework 4 John Zweck

- 1. **A**.2D: 14. In addition show that $\frac{1}{4}$ is not an endpoint of any of the removed middle-third intervals
- 2. A.2D: 18
- 3. Show that $x \in \bigcup_{j=1}^{\infty} G_j$ if and only if every base 3 expansion of x contains at least one 1.
- 4. History Notes Problem 10, parts 1,6,7,8
- 5. History Notes Problem 11, parts 1,2,3

Additional Problem [Not not hand in]

- 1. **A**.2D: 15
- 2. A.2D: 16
- 3. **A**.2D: 17
- 4. **J**.2A: 15
- 5. History Notes Problem 13