MA341 HOMEWORK #4
Due Monday, October 13

1. Lay, Section 2.5, problems #2, 8, 12, and 14.

2. Complete the analysis of the Snowflake Curve by showing that in the limit the length of the snowflake diverges to $+\infty$, but the area enclosed by the snowflake converges to a particular finite number. What is this number exactly? You may use the fact that a geometric series
$$a + ar + ar^2 + ar^3 + \cdots$$
where $|r| < 1$ converges to $\frac{a}{1-r}$.

3. Find and write up any one item on the Scavenger Hunt that hasn't been found so far. If more than one person turns in the same item, I will select one of them to keep and require the other individuals to find different items.