Week 9 (11/11/02)

## Fractal moment

Take an equilateral triangle of side $\ell$, and remove the "middle" triangle ( $1 / 4$ of the area). Then remove the "middle" triangle from each of the remaining three triangles (as shown), and so on, forever. Let the final object have mass $m$. Find the moment of inertia of this object, around an axis through its center and perpendicular to its plane.


