

Sum of geometric series (AA SL 1.8, AI HL 1.11)

Title: The Zoom Lens - Understanding the Sum of an Infinite Geometric Sequence



Concept: Sum of an Infinite Geometric Sequence

Intuition Pump: Imagine using a camera with a zoom lens. As you zoom in on a distant object, the image gets closer and larger in your viewfinder, but you never actually reach the object. Each level of zoom brings you closer by a factor, resembling the terms in an infinite geometric sequence where each term gets progressively smaller, approaching but never quite reaching zero.

