

Problem of the Week 5

Determine whether

$$\sqrt{1 + \sqrt{2 + \sqrt{3 + \sqrt{4 + \dots}}}}$$

converges or diverges. Prove your answer. ¹

¹Posted: 3/21/05 Submit your answers (by e-mail: aydinn@kenyon.edu or hard copy) before 4 pm on 4/1/05 to Noah Aydin, Mathematics Dept.