

Snippet 1

March 22, 2020

$$a_{n+1} - b_{n+1} = \frac{(\sqrt{a_n} - \sqrt{b_n})^2}{2} = \frac{(a_n - b_n)^2}{2(\sqrt{a_n} + \sqrt{b_n})^2} <= \frac{(a_n - b_n)^2}{2b_n^2}$$