fm1 .

Solution: We prove that  $\sum_{i=1}^{n} \frac{1}{\sqrt{i}} > 2(\sqrt{n+1}-1)$  for all integers  $n \ge 1$  by induction on

Base Case: (n = 1)

Since  $1^2 = 1 < 2 < 2.25 = \left(\frac{3}{2}\right)^2$ , we see that  $1 < \sqrt{2} < \frac{3}{2}$ , and hence  $\sqrt{2} - 1 < \frac{1}{2}$ . Thus,

$$\sum_{i=1}^{1} \frac{1}{\sqrt{i}} = \frac{1}{\sqrt{1}} = 1 = 2 \times \frac{1}{2} > 2\left(\sqrt{2} - 1\right) = 2\sqrt{1 + 1} - 1.$$

Inductive step: Let  $k \geq 1$  be an integer and suppose that

$$\sum_{i=1}^{k} \frac{1}{\sqrt{i}} > 2(\sqrt{k+1}-1).$$
 (IH)

We want to prove that  $\sum_{i=1}^{k+1} \frac{1}{\sqrt{i}} > 2(\sqrt{k+2}-1)$ .

Now.

$$\begin{array}{lll} \sum\limits_{i=1}^{k+1}\frac{1}{\sqrt{i}} &=& \left(\sum\limits_{i=1}^{k}\frac{1}{\sqrt{i}}\right)+\frac{1}{\sqrt{k+1}}\\ &>& 2\left(\sqrt{k+1}-1\right)+\frac{1}{\sqrt{k+1}}\\ &=& 2\sqrt{k+1}+\frac{1}{\sqrt{k+1}}-2\\ &=& 2\left(\sqrt{k+1}+\frac{1}{2\sqrt{k+1}}\right)-2\\ &=& 2\left(\frac{2(k+1)+1}{2\sqrt{k+1}}\right)-2\\ &=& 2\left(\frac{2(k+1)+1}{2\sqrt{k+1}}\right)-2\\ &=& 2\left(\frac{2k+3}{\sqrt{4(k+1)}}\right)-2\\ &=& 2\left(\frac{(2k+3)}{\sqrt{4(k+1)(k+2)}}\sqrt{k+2}\right)-2\\ &=& 2\left(\sqrt{\frac{(2k+3)^2}{4(k+1)(k+2)}}\sqrt{k+2}\right)-2\\ &=& 2\left(\sqrt{\frac{4k^3+12k+9}{4k^3+12k+8}}\sqrt{k+2}\right)-2\\ &>& 2\sqrt{k+2}-2\\ &=& 2\left(\sqrt{k+2}-1\right). \end{array}$$
 because  $\frac{4k^2+12k+9}{4k^2+12k+8}>1$ 

Thus, by the Principle of Mathematical Induction, we conclude that  $\sum_{i=1}^{n} \frac{1}{\sqrt{i}} > 2(\sqrt{n+1}-1)$ for all integers  $n \ge 1$ .

# **Discrete Math With Proof**

**Minjie Lin** 

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