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

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

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

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

Now,

$$
\begin{aligned}
\sum_{i=1}^{k+1} \frac{1}{\sqrt{i}} &= \left(\sum_{i=1}^{k} \frac{1}{\sqrt{i}}\right) + \frac{1}{\sqrt{k+1}} \\
&> 2\left(\sqrt{k+1} - 1\right) + \frac{1}{\sqrt{k+1}} \qquad \text{by (IH)}. \\
&= 2\sqrt{k+1} + \frac{1}{\sqrt{k+1}} - 2 \\
&= 2\left(\sqrt{k+1} + \frac{1}{2\sqrt{k+1}}\right) - 2 \\
&= 2\left(\frac{2(k+1)+1}{2\sqrt{k+1}}\right) - 2 \\
&= 2\left(\frac{2k+3}{\sqrt{4(k+1)}}\right) - 2 \\
&= 2\left(\frac{(2k+3)}{\sqrt{4(k+1)(k+2)}}\sqrt{k+2}\right) - 2 \\
&= 2\left(\sqrt{\frac{(2k+3)^2}{4(k+1)(k+2)}}\sqrt{k+2}\right) - 2 \\
&= 2\left(\sqrt{\frac{4k^2+12k+9}{4k^2+12k+8}}\sqrt{k+2}\right) - 2 \\
&> 2\sqrt{k+2} - 2 \qquad \text{because } \frac{4k^2+12k+9}{4k^2+12k+8} > 1 \\
&= 2\left(\sqrt{k+2} - 1\right).
\end{aligned}
$$

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

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Oscar Levin

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