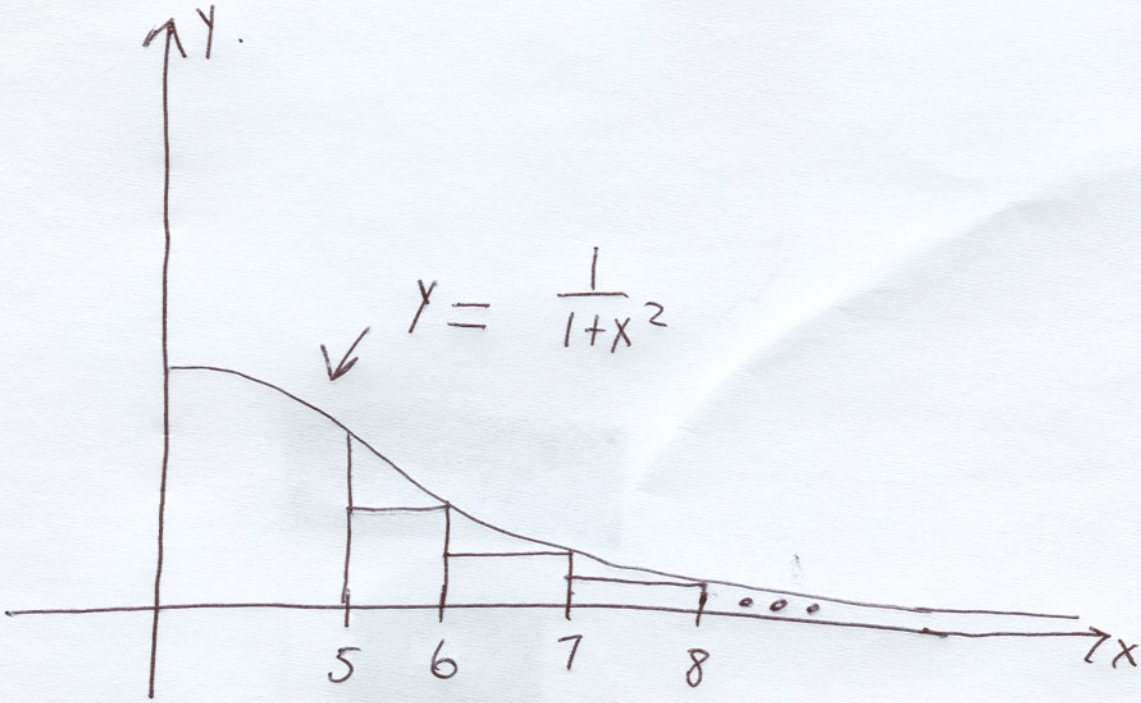

The area inside the boxes is $\sum_{k=6}^{\infty} \frac{1}{1+k^2}$

The area under the curve is $\int_{5}^{\infty} \frac{1}{1+x^2}\,dx$

$\therefore \sum_{k=6}^{\infty} \frac{1}{1+k^2} \leq \int_{5}^{\infty} \frac{1}{1+x^2}\,dx$