

Solucionario Hidraulica General Sotelo Pdf

1) Hallar la suma de la serie: $\sum_{n=1}^{\infty} \frac{3n^2+5n+2}{n(n+1)\sqrt{n^2+3n+2}}$

Sol.
 Racionalizando

$$= \sum_{n=1}^{\infty} \frac{(3n^2+5n+2)(\sqrt{n+2}-\sqrt{n+1})}{n(n+1)\sqrt{n^2+3n+2}(3n^2+5n+2)}$$

$$= \sum_{n=1}^{\infty} \frac{(n+1)\sqrt{n+2}}{n(n+1)\sqrt{n^2+3n+2}} - \sum_{n=1}^{\infty} \frac{\sqrt{n+1}}{n(n+1)\sqrt{n^2+3n+2}}$$

$$= \sum_{n=1}^{\infty} \frac{\sqrt{n+2}}{n\sqrt{(n+2)(n+1)}} - \sum_{n=1}^{\infty} \frac{\sqrt{n+1}}{(n+1)\sqrt{(n+2)(n+1)}}$$

$$= \sum_{n=1}^{\infty} \frac{1}{n\sqrt{n+1}} - \sum_{n=1}^{\infty} \frac{1}{(n+1)\sqrt{n+2}}$$

$$= \frac{1}{\sqrt{2}} - \lim_{n \rightarrow \infty} \frac{1}{(n+1)\sqrt{n+2}} = \frac{1}{\sqrt{2}}$$

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