

f. Compare the series  $u$  and the series  $v$

$$u = \sum_{n=3}^{\infty} \left( \frac{3n-1}{1} - \frac{1}{5+3n} \right)$$

the series  $v$

2. Determine the series  $v$

$$v = \sum_{n=2}^{\infty} \frac{8^n (2n+1)! (n+2)!}{(3n-4)!}$$

3. Find the series  $u$  and the series  $v$

$$u = \sum_{n=3}^{\infty} \frac{4\sqrt{2+3n^8}}{n^3 \sqrt[3]{3+5n^{15}}}$$

4. Determine the series  $u$

$$u = \sum_{n=1}^{\infty} \frac{\sqrt[3]{n^2 36^{2n}}}{(X+4)^{4n}}$$