

Somme de séries :

a) Calculer $\sum_0^{+\infty} \left(\frac{1}{(3n+2)^2} + \frac{1}{(3n+1)^2} \right)$

b) Calculer $\sum_0^{+\infty} \left(\frac{1}{3n+1} - \frac{1}{3n+2} \right)$

c) $\sum_0^{+\infty} \frac{1}{(4n+1)(4n+2)} = \frac{\pi + 2\ln(2)}{8}$

$$\frac{6}{\sqrt{z}} = xp \frac{z^{x+x+1}}{1} \int_1^0 = xp(x-1)u_{\mathfrak{E}}^x \int_1^0 \sum_{\infty+}^0 (b) \frac{z}{z^2} = \frac{z(1+u)}{1} \sum_{\infty+}^0 \frac{6}{1} - \frac{z^u}{1} \sum_{\infty+}^1 (a)$$