

Oppgave 7.5.14

a)

$$> \text{sum}\left(\frac{1}{n^2}, n = 1 \dots \text{infinity}\right)$$

$$\frac{1}{6} \pi^2$$

(1)

Hvis du heller vil bruke symbolet ∞ istedenfor å skrive *infinity*, finner du det i skuffen Common Symbols i venstre marg

$$> \text{sum}\left(\frac{1}{n^2}, n = 1 \dots \infty\right)$$

$$\frac{1}{6} \pi^2$$

(2)

d)

$$> \text{sum}\left(\frac{n \cdot x^n}{n + 1}, n = 0 \dots \infty\right)$$

$$\frac{1}{2} x \left(-\frac{2}{x(x-1)} + \frac{2 \ln(-x+1)}{x^2} \right)$$

(3)

$$> \text{simplify}(\%)$$

$$\frac{\ln(-x+1) x - \ln(-x+1) - x}{x(x-1)}$$

(4)

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