((((R*R))))

NATURAL LANGUAGE | MATH INPUT

CALCULUS & SUMS

Derivative

Step-by-step solution

$$\frac{\partial}{\partial k}\left(\frac{\frac{x\,x}{R}}{1+\sqrt{1-\frac{(1+k)\,(x\,x)}{R\,R}}}+d\right)=$$

$$\frac{x^4}{2\,R^3\sqrt{1-\frac{(k+1)\,x^2}{R^2}}\left(\sqrt{1-\frac{(k+1)\,x^2}{R^2}}+1\right)^2}$$

Alternate form

$$\frac{x^4}{2\,R^3\sqrt{-\frac{(k+1)\,x^2-R^2}{R^2}}\left(\sqrt{-\frac{(k+1)\,x^2-R^2}{R^2}}+1\right)^2}$$

POWERED BY THE **WOLFRAM LANGUAGE**

Related Queries:

- limit of (((x x)/R)/(1 + …
- series of ((x x)/R)/(1 +…
- ((x x)/R)/(1 + sqrt(1 - (…
- d/dk(((x x)/R)/(1 + sqrt…
- series of ((x x)/R)/(1 +…