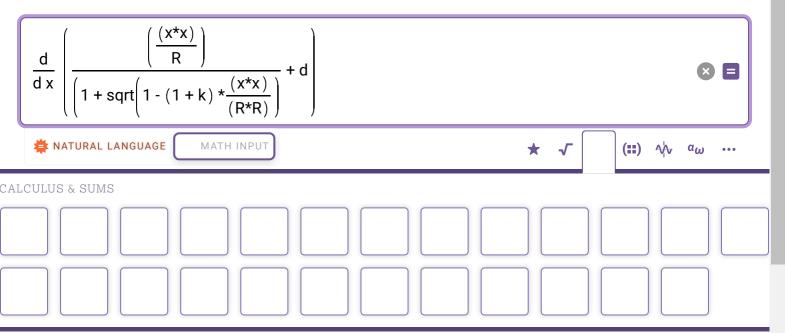
Unlock Step-by-Step







Derivative

✓ Step-by-step solution

$$\frac{\partial}{\partial x} \left(\frac{\frac{xx}{R}}{1 + \sqrt{1 - \frac{(1+k)(xx)}{RR}}} + d \right) = \frac{Rx\sqrt{1 - \frac{(k+1)x^2}{R^2}}}{R^2 - (k+1)x^2}$$

Alternate form assuming k, R, and x are real

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

Alternate forms

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

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