S1. Find the points on the parabola y=8x which is the radius Differentiate loth sides w. r

Is show that the curre y = ax, the radius of we watere of at (x,y)

related as $(29\% = x^2 + y^2)$ (a) y^2 x^2 For y: $y_1 = d(ax)$ = d(ax) $= (a+x)d(ax) - ax \cdot d(a+x)$ = d(a+x) $= (a+x)d(ax) - ax \cdot d(a+x)$ $= \frac{\partial^2 x}{\partial x^2} + \frac{\partial^2 y}{\partial x^2} = \frac{\partial^2 y}$ $= \frac{1}{2} y_2 = -2a^2$ $= \sqrt{1 + (2 + 2)^{3/2}} \times (a + x)^{3} \times a$ $-2a^{2} \times a$ $\Rightarrow can't be - re$