$$\frac{dz}{dt} = \frac{2t \cdot t^{2}}{x + 2y} \left(\frac{3t^{2} + 1}{x + y^{2}} \right)$$

$$\frac{dz}{dt} = \frac{2t \cdot t^{2}}{x + 1} + \left(\frac{2t^{3} + 2t}{x + 1} \right) \left(\frac{3t^{2} + 1}{x + 1} \right)$$

$$\frac{dz}{dt} = \frac{2t \cdot t^{2}}{x + 1} + \left(\frac{2t^{3} + 2t}{x + 1} \right) \left(\frac{3t^{2} + 1}{x + 1} \right)$$

$$\frac{dz}{dt} = \frac{2u \cdot dz}{dt} + \frac{2u \cdot dz}{dt} + \frac{2u \cdot dz}{dt}$$

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