Based on derivatives of composed functions.

$$\frac{d}{dx}\frac{dy}{dx} = \frac{\dot{x}\ddot{y} - \dot{y}\ddot{x}}{\dot{x}^3}$$

Where
$$\dot{x}=\frac{dx}{dt}$$
, $\dot{y}=\frac{dy}{dt}$, and $\ddot{x}=\frac{d^2x}{dt^2}$.

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