

$$2x + 2y + 2x \frac{d}{dx}(y) + 3y^2 \frac{d}{dx}(y) = 0$$

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$$-(2x + 2y) = 2x \frac{d}{dx}(y) + 3y^2 \frac{d}{dx}(y)$$

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$$-(2x + 2y) = (2x + 3y^2) \frac{d}{dx} (y)$$

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$$\frac{dy}{dx} = \frac{-2(x+y)}{(2x+3y^2)}$$

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