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variant: 2

Q8.

~~Q8.~~

find the slope: $m = \frac{dy}{dx} = \frac{3x}{2y}$

$$m = \frac{dy}{dx} \bigg|_{(2,4)} = \frac{3}{4}$$

$$y - y_0 = m(x - x_0)$$

$$= y - 4 = \frac{3}{4}(x - 2)$$

$$= y = \frac{3}{4}x + \frac{5}{2}$$