

Answer to question#50092

$$\begin{aligned}\frac{d}{dx}(\sqrt{x}(x^2 + x - 4)) &= (x^2 + x - 4)\frac{d}{dx}(\sqrt{x}) + \sqrt{x}\frac{d}{dx}(x^2 + x - 4) \\ &= (x^2 + x - 4)\frac{1}{2\sqrt{x}} + \sqrt{x}(2x + 1) = \frac{5x^2 + 3x - 4}{2\sqrt{x}}\end{aligned}$$

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