Derivatives Starter Pack

1. $\frac{d}{dx}\left(e^{3x^2+2x-1}\right)$

2. $\frac{d}{dx}\left(\tan\left(\sqrt{2x^2+3}\right)\right)$

3. $\frac{d}{dx}\left(sin^2(\ln(2x))\right)$

4. Find the equation of tangent line to $y = \sqrt{2x+5}$ at $x = 2$.

5. $2x^2 + 3xy - y^2 = 4$ $\quad\quad$ $\frac{dy}{dx} = ?$

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