For each function, find its derivative. Remember that you can verify your answer by graphing.

1. $6e^{x} \sin(x)$ 2. $4\ln(x)(x^{3} - 3)$ 3. $\frac{x + \cos(x)}{7x^{2}}$ 4. $\tan(x)$ Hint: $\tan(x) = \frac{\sin(x)}{\cos(x)}$

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