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

1. $e^x - 7x$

2. $\ln(x) - x^2 + 3x$

3. $e + x^3 - 7e^x$

4. $x^e - \ln(x) + 3^x$

5. $\ln(7)e^x - 3x^{\ln(12)} + 5e^8 - (\ln(3))^x$