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

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