

Find the derivatives of the following functions:

1. $f(x) = 2x^3 - 5x^2 + 3x - 7$

2. $f(x) = \sqrt{2x^3 - 5x^2 + 3x - 7}$

3. $f(x) = \frac{2}{2x^3 - 5x^2 + 3x - 7}$

4. $f(x) = \sqrt{x}e^x$