

POP QUIZ

Differentiate the following functions:

1. $y = 0.75x^5 - \frac{4x^3}{3} + \frac{x}{\sqrt{\pi}}$

2. $y = \frac{1}{\sqrt{x^2 - 2x + 3}}$

3. $y = (3x^2 + 2)e^{-x}$

4. $y = \ln(x - \sqrt[3]{x})$

5. $y = \frac{3x - 2}{2x + 5}$