CALCULUS WORKSHEET

Differentiate the following functions:

1. $f(x) = 5$

2. $f(x) = -2x$

3. $f(x) = \sqrt{x}$

4. $f(x) = \sqrt[3]{x^2} + \sqrt{x}$

5. $f(x) = e^{3-x^2}$

Answer Sheet:

1. $f'(x) = 0$

2. $f'(x) = -2$

3. $f'(x) = \frac{1}{2\sqrt{x}}$

4. $f'(x) = \frac{2x}{3(x^2)^{\frac{2}{3}}} + \frac{1}{2\sqrt{x}}$

5. $f'(x) = -2xe^{3-x^2}$