Problem 1: Find the Derivative of the following Functions with respect to the variable x using the Power Rule:

1) $-4x^4$ 2) $3x^7 - 6x^{11}$ 3) $-3x^{-4} + 5x^{-2}$

Problem 2: Find the Derivative of the following Functions with respect to the variable x using the Product Rule:

1) $4x^2(5x^{-2})$

2) $17x^{-3}(-2x^4)$

Problem 2: Find the Derivative of the following Functions with respect to the variable x using the Quotient Rule:

1) $\frac{4x^2}{5x^{-2}}$

2) $\frac{-2x^4}{17x^{-3}}$