

1. Expand and simplify (4 points)

$$4x(3x^2 + 5x^8) - 2x^3(1 - 5x^6)$$

2. Find the greatest common factor (GCF) and factor it out (4 points)

$$9x^2y^5 - 3x^3y^2$$

3. Test your answer to question 1 by “plugging in” a value for  $x$ ; ensure that you get the same result when  $x$  is plugged into the original equation and when  $x$  is plugged into the final, expanded and simplified equation (2 points)