

Name: \_\_\_\_\_

## MA2 Homework 1

1. Find  $f''(x)$  if  $f(x) = (3x - 2x^2)^3$ .

2. Find  $dy/dx$  given that  $y^3 + y^2 - 5y - x^2 = -4$

3. Find  $dy/dx$  given that  $x^3 - 3x^2y + 2xy^2 = 12$