Name _____ Quiz 3

1 In each of the following, find $\frac{dy}{dx}$.

(A) $y = 3(x^5 + 3x^2 + 4x + 1)^9$

(B) $x^2 + 3y^2 = 3x^3$

2) A square concrete mold is increasing in size as the concrete fills the inside. If the side length is increasing at a rate of 2ft/min, how fast is the area of concrete changing when the square is 3 feet wide?