

## QUIZ 1

Name \_\_\_\_\_

1. Can you write the formula  $y - 4x^3 - 14 = 0$  as a function of  $y$  in terms of  $x$ ? If so, do it, if not explain.
2. Find the equation that expresses the area of a square as a function of it's side  $s$ .
3. Compute and simplify the difference quotient for  $f(x) = x^2$ .
4. Find the domain of the function  $g(u) = \frac{u^2 + 1}{u^2 - u - 6}$ . Is the number 4 in the domain? If so evaluate  $g(4)$ , if not say so.