FSAP 10 Name:_____
Functions

1. Let $f(x) = 2x - 1$
   (a) Explain why $f(x)$ does not mean $f \cdot x$.
   (b) What does $f(2)$ mean?
   (c) Evaluate $f(2)$.
   (d) For what x is $f(x) = 3$?
2. Let $g(x) = -3x + 5$
   (a) Evaluate $g(5)$
   (b) For what x is $g(x) = 10$?
   (c) Function notation is nice in that you can use a variable as input: Evaluate $g(s)$.
   (d) Evaluate $g(x^2)$.
3. Graph $f(x) = x^2$ for x from -3 to 3
4. Graph $g(x) = (x - 2)^2$ for x from -2 to 5
5. Graph $h(x) = x^2 + 3$ for x from -3 to 3
6. Graph $k(x) = (x + 1)^2$ for x from -4 to 3