Function squares (Main problem)

Graph passes through $(0, 0)$ Graph has rotational symmetry about $(0, 0)$ $f(x) = \cdots$	Graph passes through $(0, 0)$ Graph does not have rotational symmetry about $(0, 0)$ $f(x) = \cdots$
Graph does not pass through $(0, 0)$ Graph has rotational symmetry about $(0, 0)$ $f(x) = \cdots$	Graph does not pass through $(0, 0)$ Graph does not have rotational symmetry about $(0, 0)$ $f(x) = \cdots$

Function squares (Main problem)

Function is defined for all real x Different values of x always give different values of $f(x)$ $f(x) = \cdots$	Function is defined for all real x Different values of x may give the same value of $f(x)$ $f(x) = \cdots$
Function is not defined for some real x Different values of x always give different values of $f(x)$ $f(x) = \cdots$	Function is not defined for some real x Different values of x may give the same value of $f(x)$ $f(x) = \cdots$