Algebra 1 Name _ 5.3 HW (Part 2 - Horizontal Translations)

Describe each new graph in relation to its basic function.

- 1. Basic function: h(x) = x New function: f(x) = x + b
- 2. Basic function: $h(x) = b^x$ New function: $f(x) = b^{(x-c)}$
- 3. Basic function: h(x) = x New function: f(x) = (x-b)
- 4. Basic function: $h(x) = b^x$ New function: $f(x) = b^{(x+c)}$
- 5. Basic function: $h(x) = b^x$ New function: $f(x) = b^x k$
- 6. Basic function: h(x) = x New function: f(x) = (x+b)

Each coordinate plane shows the graph of f(x). Sketch the graph of g(x).



9. g(x) = f(x+5)







For each of the following, graph the basic function and the second function on the same graph.

