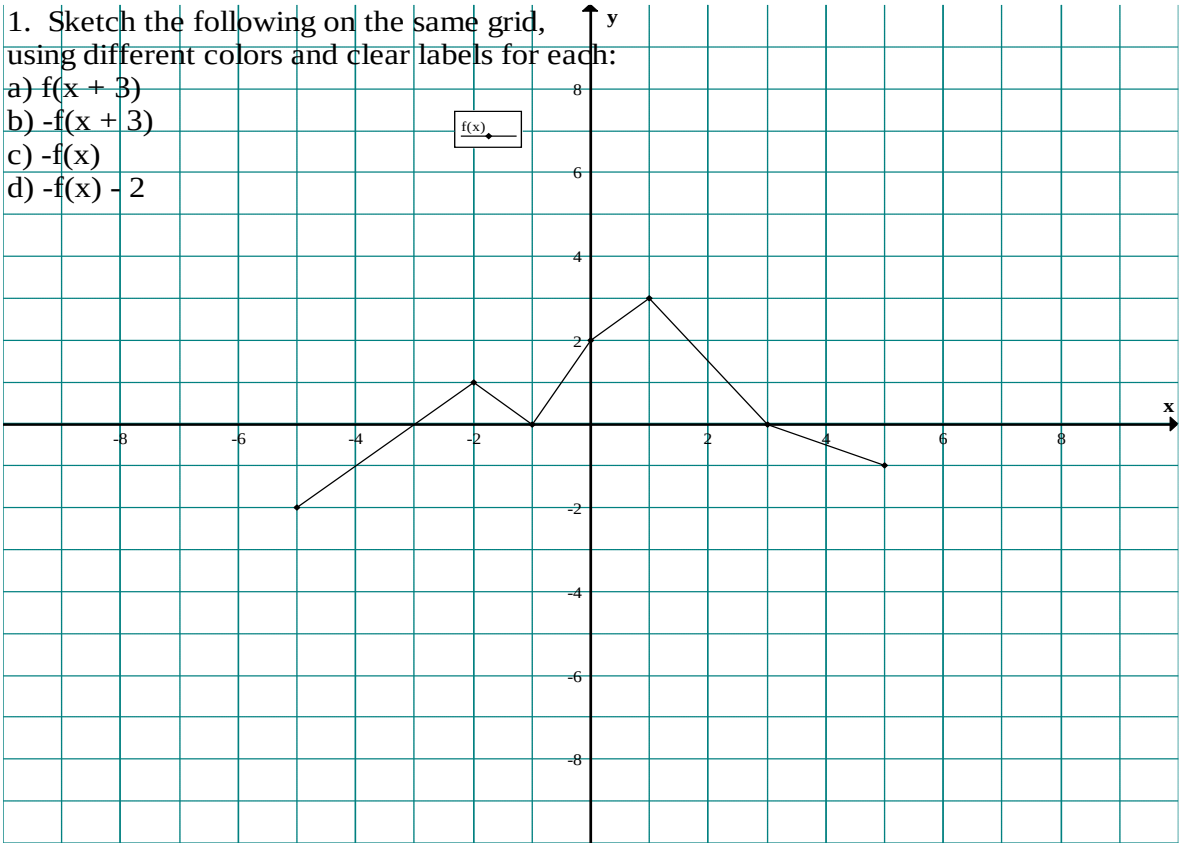
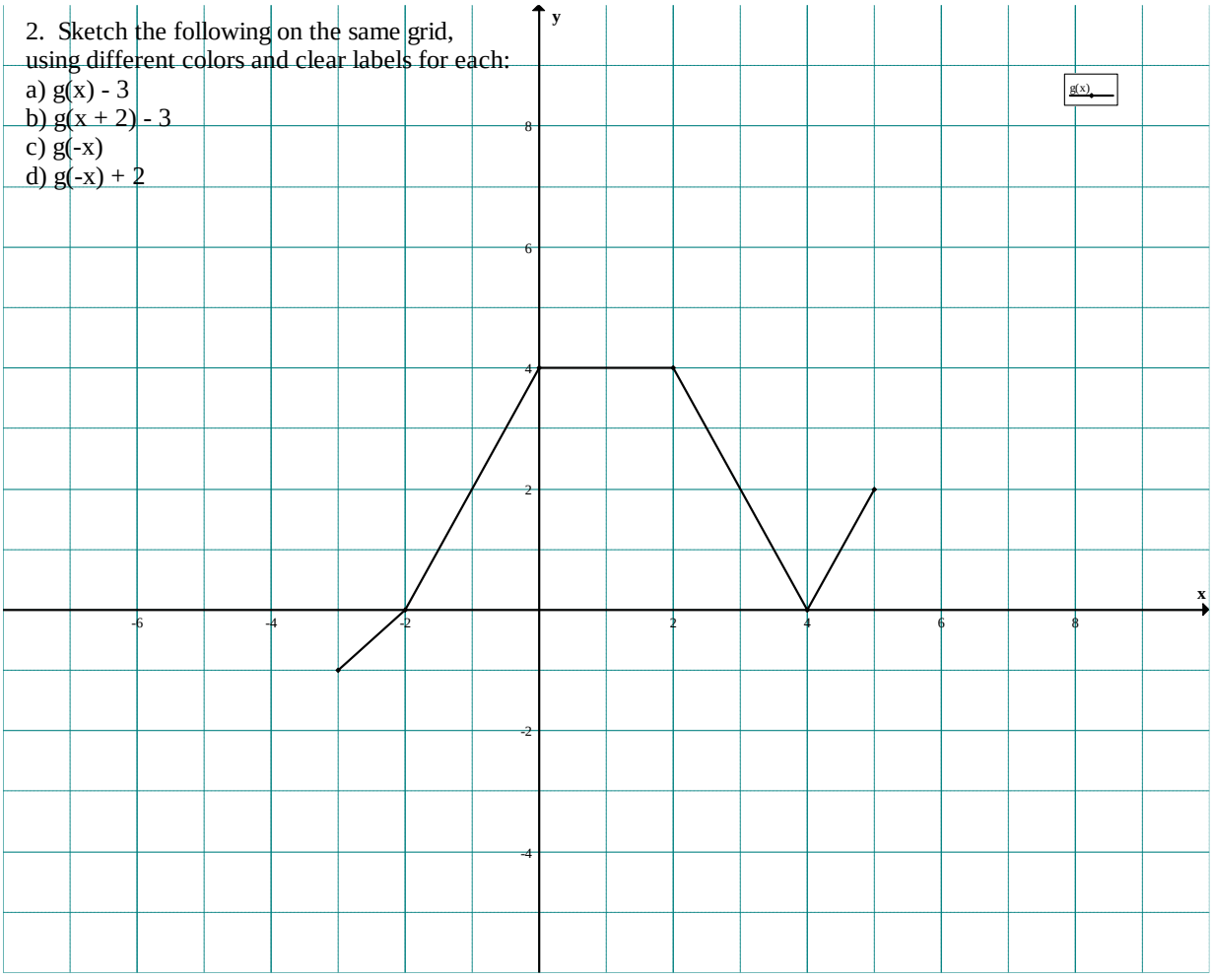
IB Math SL 1 Transformations - Shifts and Reflections Worksheet Name_____

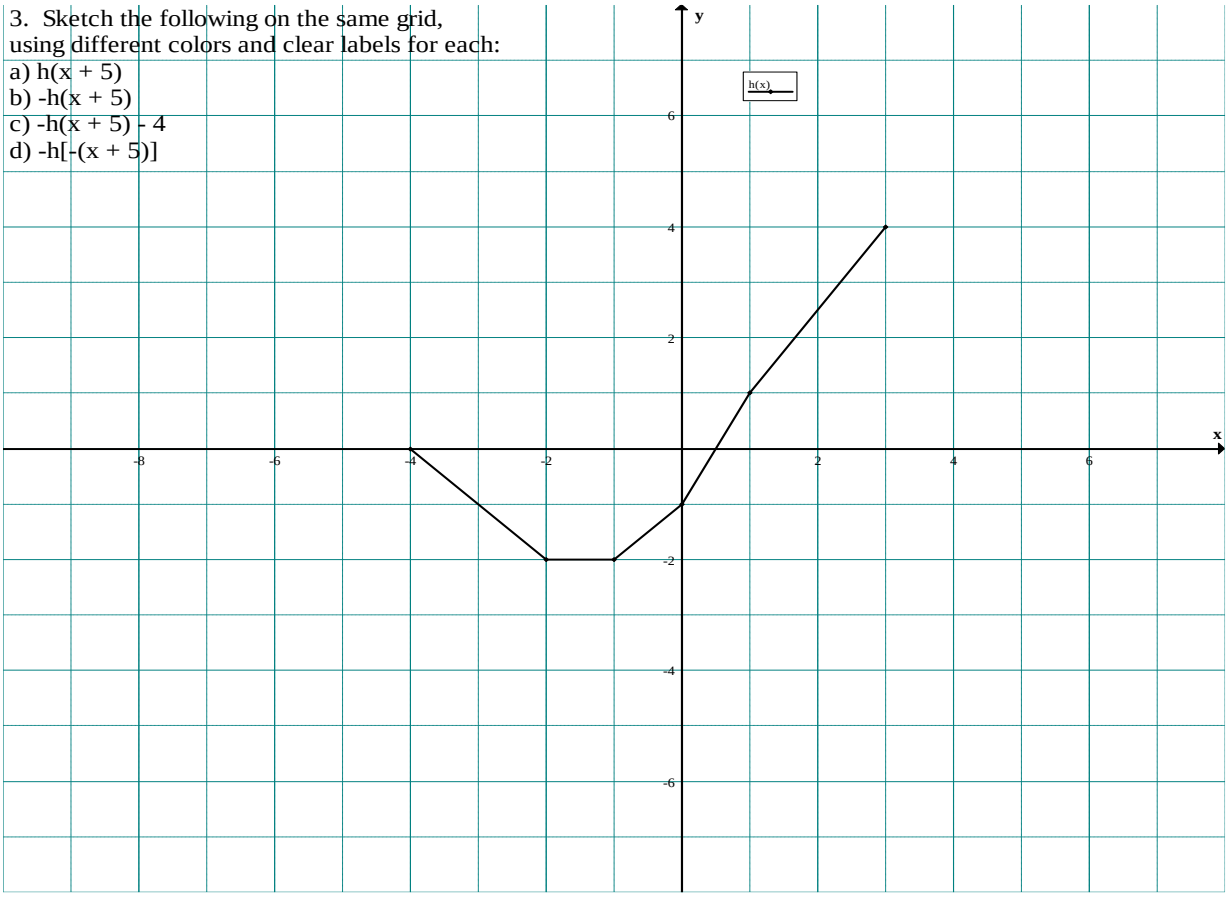
1. Sketch the following on the same grid, using different colors and clear labels for each:
a) f(x + 3)
b) -f(x + 3)
c) -f(x)
d) -f(x) - 2



2. Sketch the following on the same grid, using different colors and clear labels for each:
a) g(x) - 3
b) g(x + 2) - 3
c) g(-x)
d) g(-x) + 2



3. Sketch the following on the same grid, using different colors and clear labels for each:
a) h(x + 5)
b) -h(x + 5)
c) -h(x + 5) - 4
d) -h[-(x + 5)]



3. Sketch -k[-(x - 3)] + 1.
It is recommended that you do it in steps, by looking at the order of operations.