Suppose $(8,-5)$ is a point on the graph of $y=g(x)$.
(a) What point is on the graph of $y=g(x+5)-2$ ?
(b) What point is on the graph of $y=-2 g(x-3)+7$ ?
(c) What point is on the graph of $y=g(2 x+2)$ ?
(a) What point is on the graph of $y=g(x+5)-2$ ?
(a) Move to the left 5 and down 2: $(3,-7)$
(b) $-2 \mathrm{~g}(\mathrm{x})$ has the point $(8,10)$ Multiply y -value by -2 ..

Take that, replace x by $\mathrm{x}-3$ is a shift right by $3:-2 \mathrm{~g}(\mathrm{x}-3)$ has the point $(11,10)$
Take that, add 7 to $y$-value: $-2 g(x-3)+7$ has the point $(11,17)(\backslash$
(c) $g(2 x+2)=g(2(x+1))$.
$\mathrm{g}(2 \mathrm{x})$ DIVIDE x -value by 2: $(4,-5)$
Replace $x$ by $(x+1)$ and so $g(2(x+1))$ is left 1 from previous: $(3,-5)$

