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 = -2g(x-3) + 7?
- (c) What point is on the graph of y = g(2x + 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) -2g(x) has the point (8, 10) Multiply y-value by -2..

Take that, replace x by x-3 is a shift right by 3: -2g(x-3) has the point (11, 10)

Take that, add 7 to y-value: -2g(x-3) + 7 has the point (11, 17)(\

(c)
$$g(2x+2) = g(2(x+1))$$
.

g(2x) 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)