

PRE-AP ALGEBRA 2

2A.4 CLASSWORK

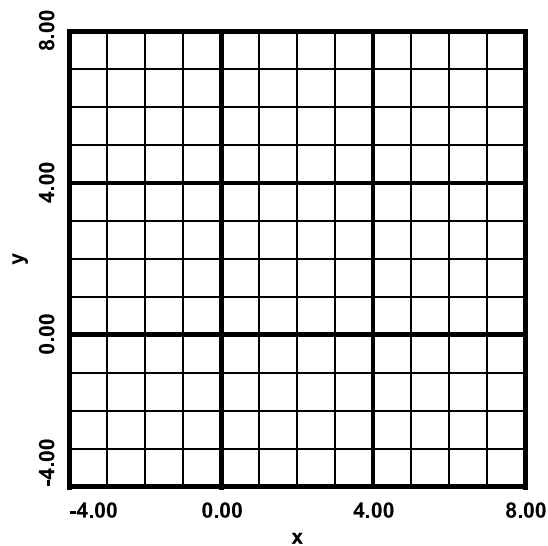
For problems 1 and 2, given $y = f(x)$ and (x_0, y_0) :

a) Calculate $g(x) = f(x - x_0) + y_0$, which is the translation of $y = f(x)$ by (x_0, y_0) .

b) To verify the translation, graph both $y = f(x)$ and $y = g(x)$ on the axes provided.

1) $y = f(x) = x^2 - 8x + 13$

$(x_0, y_0) = (-5, 2)$



2) $y = f(x) = 2^x$

$(x_0, y_0) = (2, 5)$

