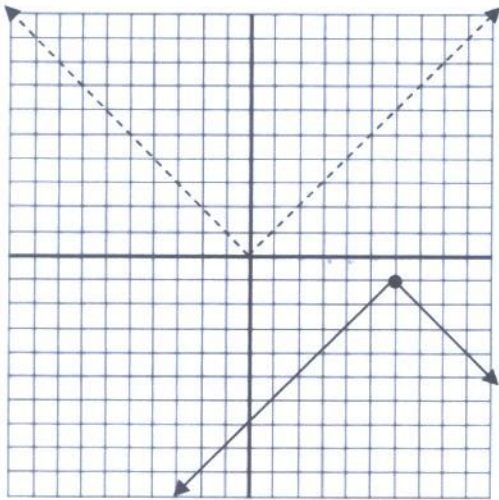


20.) Given  $f(x) = |x|$  (dotted graph), find the equation for the solid graph.



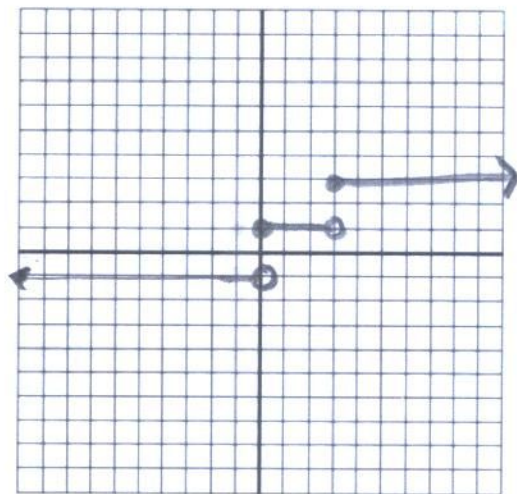
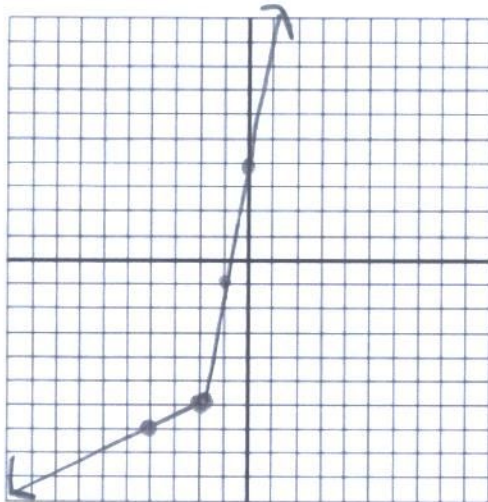
$$(6, -1)$$

$$g(x) = (x-6)^2 - 1$$

21.) Graph the following piecewise functions.

$$f(x) = \begin{cases} \frac{1}{2}x - 5 & \text{if } x < -2 \\ 5x + 4 & \text{if } x \geq -2 \end{cases}$$

$$f(x) = \begin{cases} -1 & \text{if } x \leq 0 \\ 1 & \text{if } 0 < x < 3 \\ 3 & \text{if } x \geq 3 \end{cases}$$



$x$	$\frac{1}{2}x - 5$
-2	-6
-4	-7

$x$	$5x + 4$
-2	-6
0	4
-1	-1