

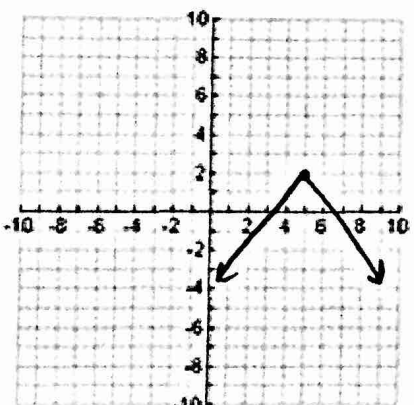
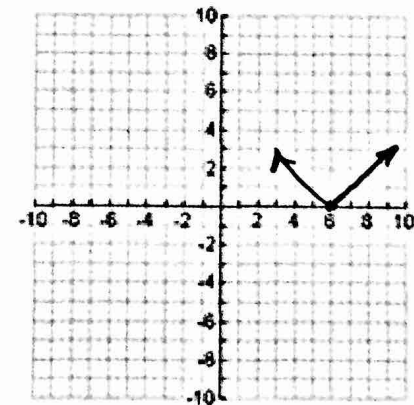
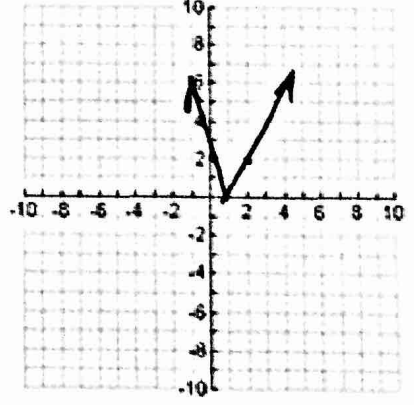
Algebra 2
HW #12 Absolute Value Transformations

Name _____ Date _____

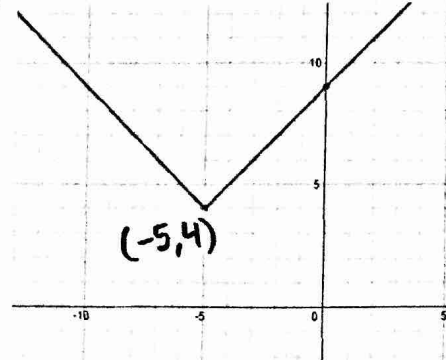
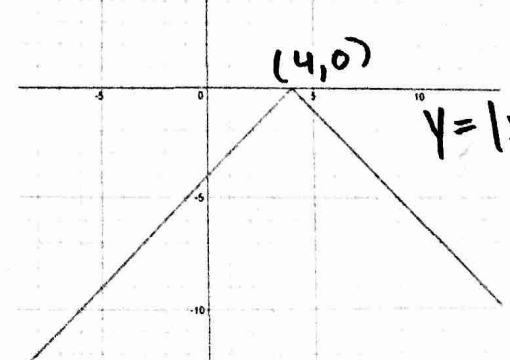
If $f(x) = |x|$ was transformed, what would the equation change to if:

1) the graph moved down 2 units? $f(x) = x - 2$	2) the graph moved 1 unit to the right? $f(x) = x - 1 $	3) the graph moved 4 units to the left? $f(x) = x + 4 $
4) the graph had a vertex of $(8, \frac{1}{2})$? $f(x) = x - 8 + \frac{1}{2}$	5) the graph had a vertex of $(1.5, 4.5)$? $f(x) = x - 1.5 + 4.5$	6) the graph had a vertex of $(-2.5, 3)$? $f(x) = x + 2.5 + 3$

Graph each transformation

7) Reflect $f(x) = x - 5 + 2$ across the x-axis. 	8) $g(x) = x - 6 $ 	9) $p(x) = 2 x - 1 $ 
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Give the equation for each graph.

10)  $y = x + 5 + 4$	11)  $y = x - 4 $
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