

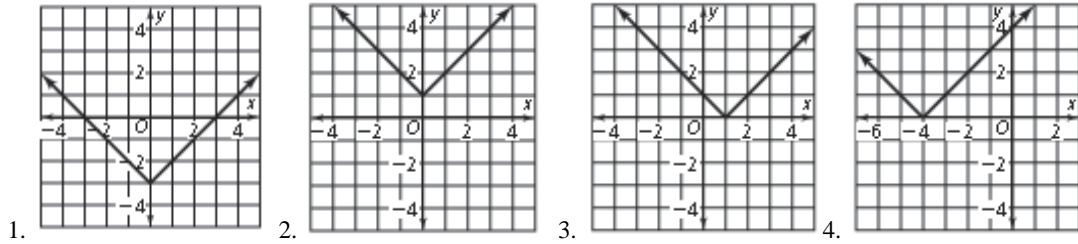
5-8

Practice

Form G

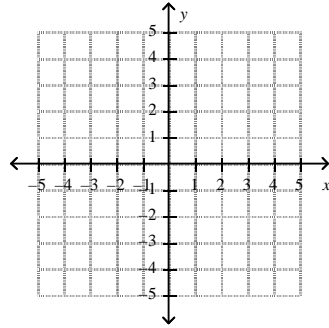
Graphing Absolute Value Functions

Describe how each graph is related to $y = |x|$. (ex. up 4, left 2)

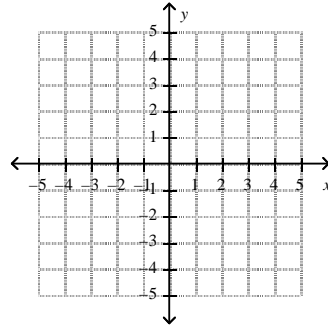


Without making a table, graph each function by translating $y = |x|$.

5. $y = |x| + 3$



6. $y = |x| - 2$



Write an equation for each translation of $y = |x|$.

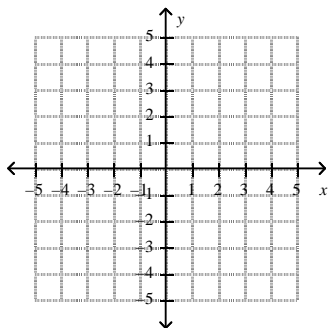
7. 2 units down

8. 1 unit up

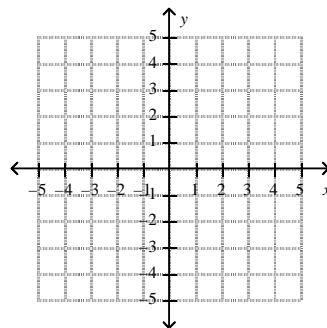
9. 1.18 units up

Without making a table, graph each function by translating $y = |x|$.

10. $y = |x + 6|$



11. $y = |x - 5|$



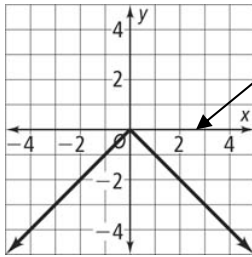
Write an equation for each translation of $y = |x|$.

12. left 7 units

13. left $\frac{1}{2}$ unit

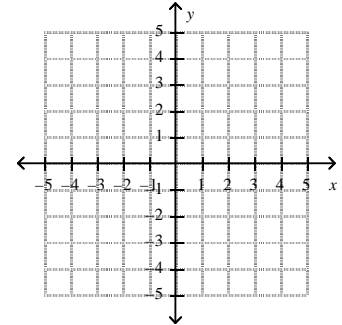
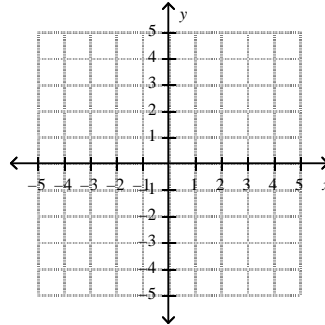
14. right 3 units

At the left is the graph of $y = -|x|$. Graph each function by translating $y = -|x|$.



15. $y = -|x + 2|$

16. $y = -|x| - 2$



Write an equation for each translation of $y = -|x|$.

17. 5 units down

18. 8 units right

Graph the translation of $y = |x|$. Describe how the graph is related to the graph of $y = |x|$.

19. $y = |x + 3| - 2$

Try it using mental math... or even make a table to graph it if you need to.

