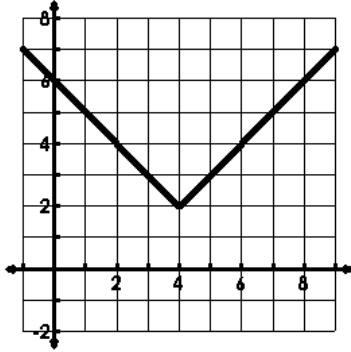


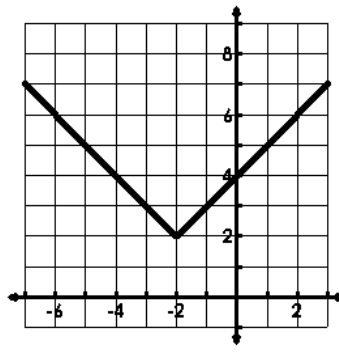
Name: _____ Date: _____

Write the equation for the absolute value graphs.

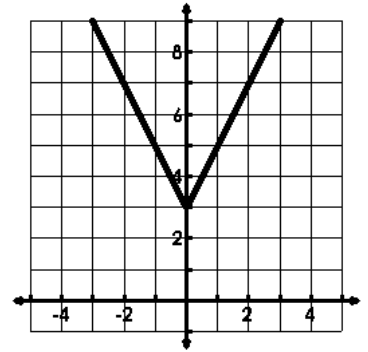
1.



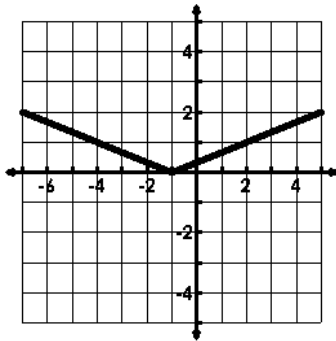
2.



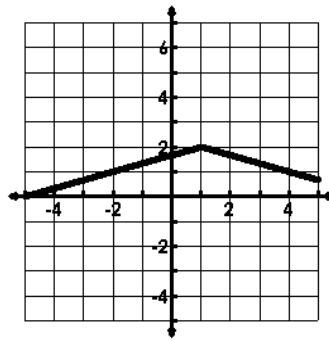
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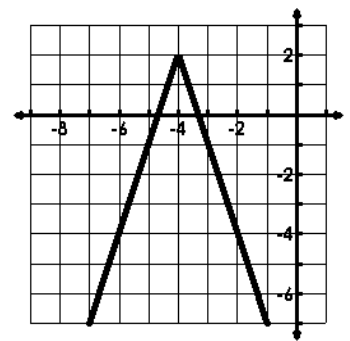
4.



5.

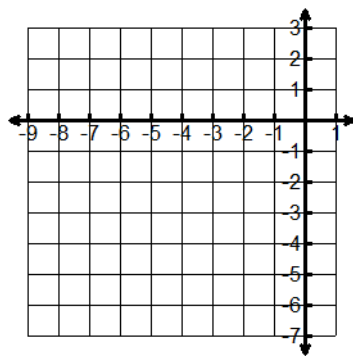


6.

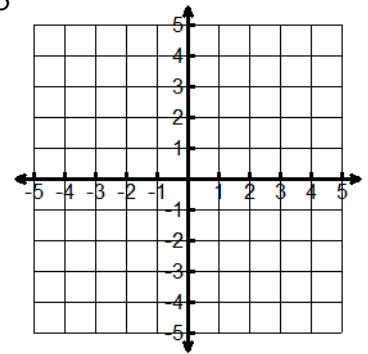


Graph the absolute value function. State the vertex and the “a” value.

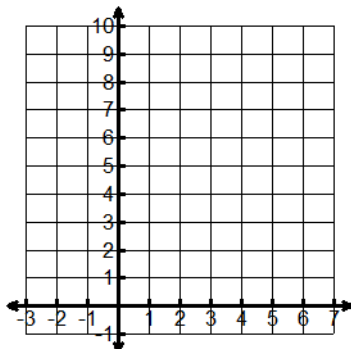
7. $f(x) = -|2x + 4|$



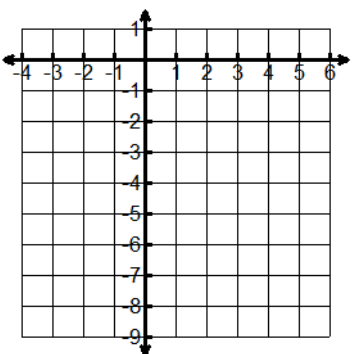
8. $f(x) = 4|x - 1| - 3$



9. $f(x) = |x - 3| + 4$



10. $f(x) = -\frac{1}{2}|-x + 1|$



Describe the transformations.

11. $f(x) = -3|x - 4| - 10$

12. $f(x) = |-3x + 2| - 3$

13. $f(x) = -7|x + 2| + 5$

14. $f(x) = 3|-x - 2| + 1$

15. $f(x) = -\frac{1}{3}|5x - 5| - 4$

16. $f(x) = 3|-x + 2| - 1$

Solve the following equations for x.

17. $-2|x| = -4$

18. $|x - 4| - 5 = 1$

19. $-\frac{1}{3}|x - 2| + 1 = 10$

20. $2|x + 1| + 1 = 1$

21. $-3|x + 5| + 2 = 5$

22. $|x + 3| = 7x$

23. $f(x) = \begin{cases} 2x^2, & x < 2 \\ |x - 4|, & x \geq 2 \end{cases}$

Domain: _____

Range: _____

Pt. of Discontinuity: _____

Increasing: _____

