Solve the following absolute value equations algebraically. Circle or box your answer.

Solve the following absolute value equations algebraically. Circle or box your answer.		
1. $ 10x-12 =2x$	2. -x+3 =-4	3. $2 x-4 =14$
$4. \ 4 - 2 x + 9  = -6$	5. $ x+4 +3=17$	6. $ 2x-4 =6x$

7. $ x+3  < 1$	8. $ 4x+1  > -5$
9. $ 3x+3  \ge 6$	10. $3 x+4  \le 3$

11.	3 7 - x	+4≤19
-----	---------	-------

12. 
$$-2|x+3| \le 22$$

Identify the <u>vertex</u> of the function, tell whether the function opens up or down, and tell whether the graph is wider, narrower, or the same width as the graph of f(x) = |x|. Graph the function.

13. 
$$j(x) = -2|x-4| + 3$$

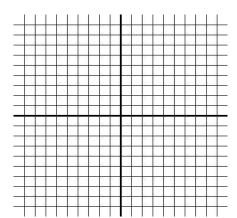
14. 
$$g(x) = -\frac{1}{4} |x|$$

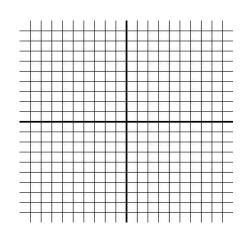
15. 
$$h(x) = |x-3| + 4$$

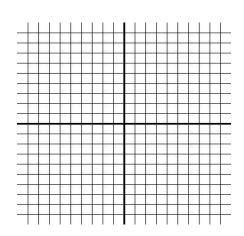
Vertex: ( , )
Opens:\_\_\_\_\_
Width: \_\_\_\_\_

Vertex: ( , )
Opens: \_\_\_\_\_
Width: \_\_\_\_\_

Vertex: ( , )
Opens:\_\_\_\_\_
Width: \_\_\_\_\_







Write an equation of the graph.

16.

