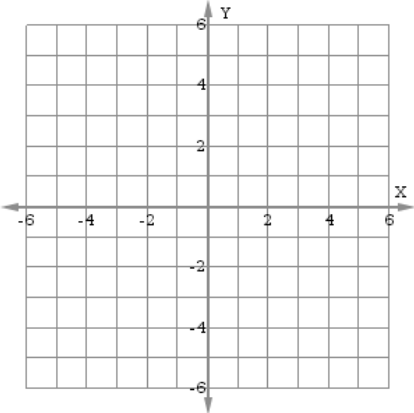
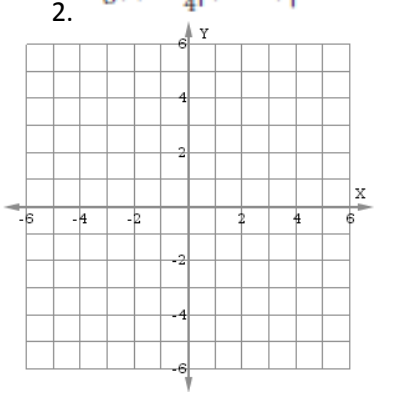
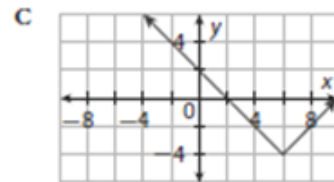
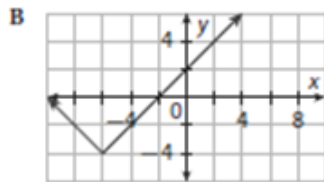
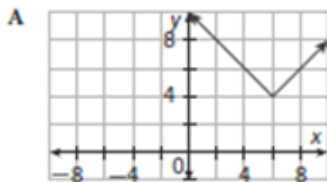


Graph each function. State the Domain and the Range in interval notation.

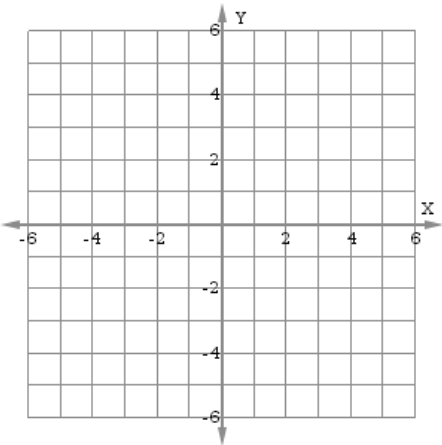
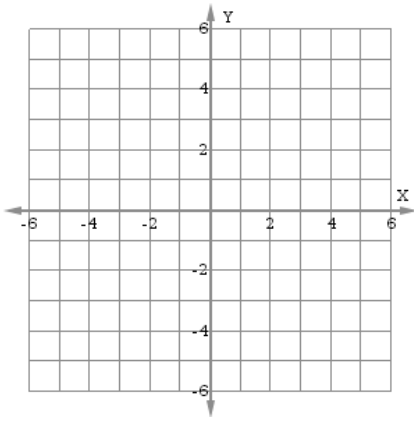
<p>1. $g(x) = -4 x + 2 + 5$</p> 	<p>2. $g(x) = \frac{7}{4} (x - 2) - 3$</p> 
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3. Match each graph with its function.

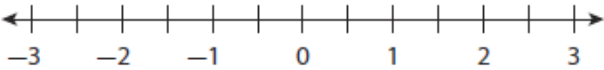
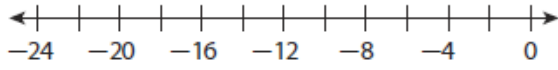
_____ $y = |x + 6| - 4$ _____ $y = |x - 6| - 4$ _____ $y = |x - 6| + 4$



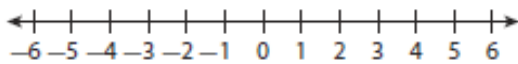
Solve by graphing. Write the solution set below.

<p>3. $-2 x + 5 + 4 = 2$</p>  <p>Solution:</p>	<p>4. $\left \frac{3}{2}(x - 2) \right + 3 = 2$</p>  <p>Solution:</p>
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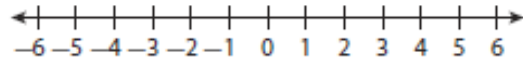
Solve. Graph the solution. Watch out for problems with one solution or no solution.

<p>5. $2x = 5$</p>	<p>6. $\left \frac{1}{4}x + 2 \right = 1$</p>
	

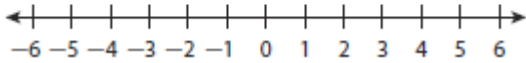
7. $3|x - 1| = 15$



10. $-3|x - 3| + 3 = 6$



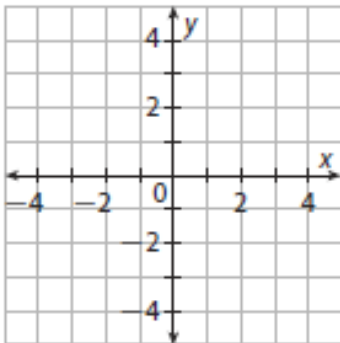
11. $2(|x + 4| + 3) = 6$



Solve each inequality graphically. State the solution as an inequality.

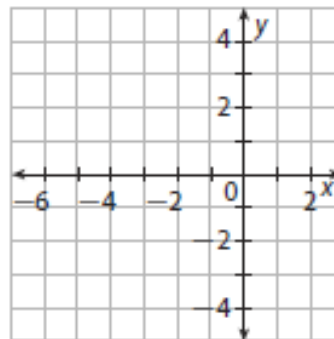
12.

$\frac{1}{2}|x| + 2 < 3$



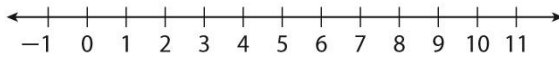
13.

$|x + 2| - 4 \geq -2$

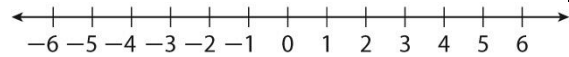


Solve each inequality algebraically. If it has no solution, say so. If it has a solution, graph it.

14. $|x + 3| - 1.5 < -2.5$



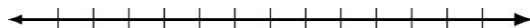
15. $|x| + 17 > 20$



16. $\left|x + \frac{1}{2}\right| - 2 \geq 2$



17. $\left|\frac{3}{2}x - 2\right| + 6 > 5$



18. A machine at a lumber mill cuts boards that are 3.25 meters long. It is acceptable for the length to differ from this values by at most 0.02 meters. Write and solve an absolute value inequality to find the range of acceptable lengths.