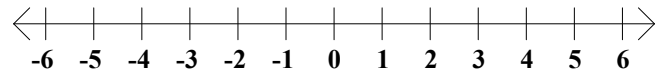
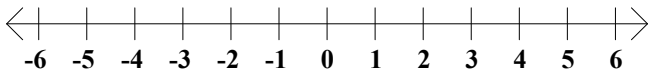


General Algebra II Worksheet #5 Unit 1 page 1 _____

Solve each of the following continued inequalities. Then express the solution set using interval notation and sketch its graph. (Show your work neatly organized.)

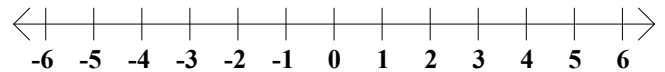
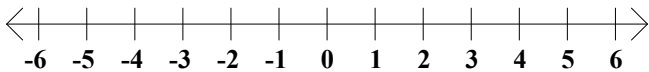
1. $-7 \leq 2x + 1 \leq 3$

2. $-10 < 4x - 2 < 14$



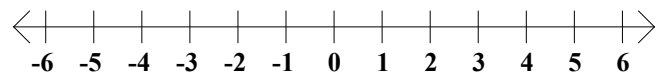
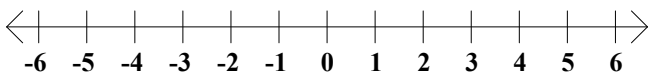
3. $-4 \leq 3x + 5 \leq 7$

4. $-10 < 6x - 7 < 13$



5. $-5 \leq -2x + 5 \leq 7$

6. $-10 < -3x - 5 < 10$

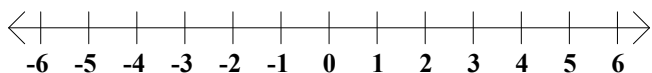


General Algebra II Worksheet #5 Unit 1 page 2

Solve each of the following compound inequalities for x . Represent the solution set as an interval or the union of intervals and sketch its graph.

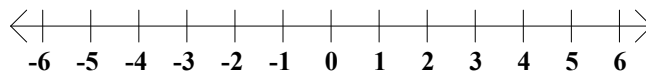
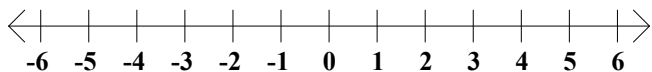
7. $2x + 5 < 13$ and $3x - 1 > -10$

8. $-4x - 6 \leq 0$ and $6x - 12 \leq 0$



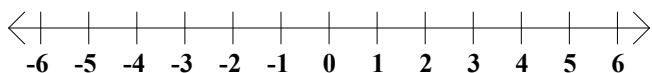
9. $3x + 5 < 12$ and $-3x + 2 \leq 10$

10. $7x + 15 > 1$ and $-5x + 3 > 0$



11. $4x - 7 > 9$ and $-3x + 1 > 4$

12. $9x - 1 \leq 5$ and $4 - 5x \geq 10$

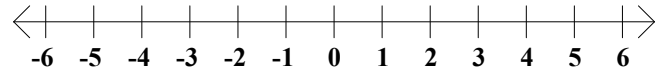
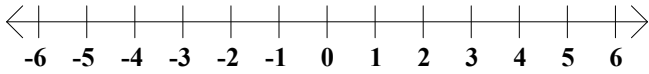


General Algebra II Worksheet #5 Unit 1 page 3

Solve each of the following compound inequalities for x . Represent the solution set as an interval or the union of intervals and sketch its graph.

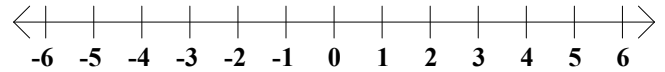
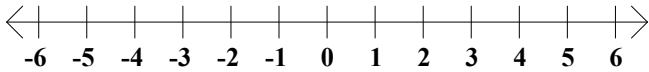
13. $2x - 7 > 10$ or $x + 8 < 5$

14. $5x + 9 \leq 1$ or $12 - 3x \leq 0$



15. $8x + 4 < 16$ or $9x - 21 \geq 0$

16. $x + 2 \leq 8$ or $1 - 3x \geq 10$



17. $7x - 5 \leq 8$ or $4x + 2 \geq 12$

18. $8x < 20$ or $2 - 8x \leq 10$

