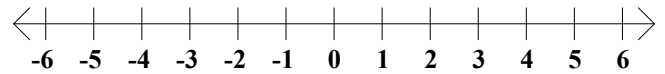
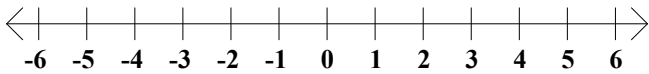


General Algebra II Worksheet #6 Unit 1 page 1 _____

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

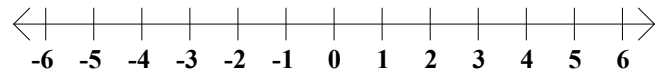
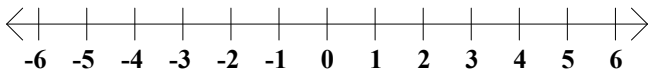
1. $-6 < 4x + 6 < 14$

2. $-3 \leq 5x - 3 \leq 17$



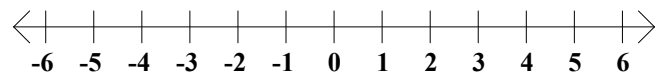
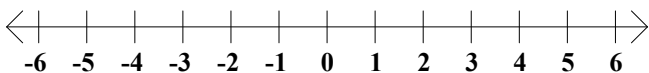
3. $-8 < 6x + 1 \leq 13$

4. $-5 \leq 3x - 8 < 6$



5. $-10 < -3x - 1 < 0$

6. $-2 \leq -2x + 8 \leq 8$

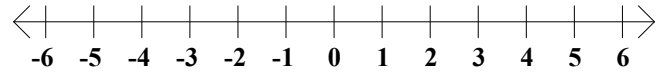
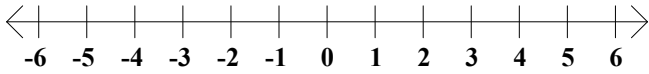


General Algebra II Worksheet #6 Unit 1 page 2

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.

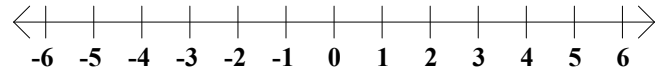
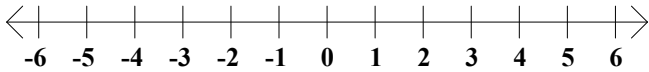
7. $3x + 7 > 1$ and $-2x + 8 > 5$

8. $8x - 5 \geq 7$ and $4 - 3x \leq 10$



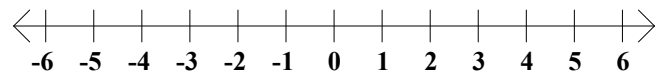
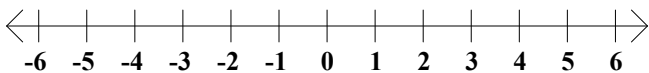
9. $5x - 6 < 9$ and $3x + 1 > 13$

10. $3x + 5 > 2$ and $-10x + 27 \geq 2$



11. $4x + 6 < 18$ and $-3x + 7 > 10$

12. $5x + 3 < 8$ and $-2x - 3 \leq 7$

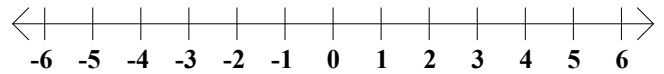
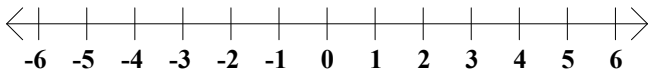


General Algebra II Worksheet #6 Unit 1 page 3

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.

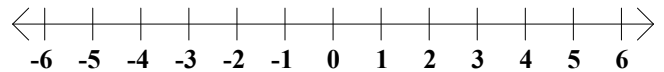
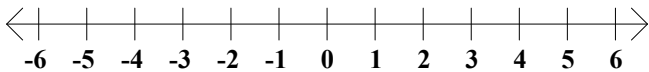
13. $3x + 5 \geq 11$ or $-2x - 5 \geq 1$

14. $6x - 3 < 9$ or $-4x + 2 > 14$



15. $8x - 10 \geq 18$ or $9x + 2 \geq 23$

16. $2x - 5 < 1$ or $3x + 2 > 5$



17. $-4x + 10 \leq 1$ or $6x + 5 \leq 2$

18. $-4x - 1 < 0$ or $-6x + 3 > 18$

