**Practice Solving Inequalities**

**Solve the following equations: (Review)**

1. 2*x* – 7 = 5 2. –4 + 6*x* = 17 3. 23 = 19 – *x*

4. 5(*x* – 3) = 15 5. 5*x* – 3 = 4*x* + 19 6. 7 + 2*x* = –4*x* – 11

**Solve the inequalities and graph the solutions on a number line.**

7. *x* – 9 < –3 8. 10 – *x* > 5

 

9. 6*x* – 5 ≥ 19 10. –2*x* + 9 > 15



11. –3 ≤ 2*x* – 13 12. –*x* – 3 ≥ *–*10x – 12

  13. 4*x* + 8 ≤ 2(*x* – 6) 14. –(*x* + 7) > 8*x* – 25

 

15. 7*x* – 30 < 19 16. –7 – 4*x* < 13



17. 2*x* + 5 ≤ 9 18. –3*x* – 5 < 16

 

19. 2*x* + 3 < 6*x* – 1 20. 3*x* – 2 ≥ 7*x* – 10

 

21. –2(*x* + 4) > 6*x* – 4 22. 7*x* – 2 ≤ –3(*x* – 2)

