Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_

 **Unit 10 Mixed Review**

Solve each equation by finding and factoring out the greatest common factor.

1. $5x^{2}-10x=0$ 2. $-12x^{2}+6x=0$

Solve by completing the square.

3.  4. 

Solve by factoring.

5.  6. 

Solve each equation by using the square root method.

7.  8. $2x^{2}-8=90$

Solve by using the quadratic formula.

9.  10. 

Determine the solutions using the graphs below.

11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the value of the discriminant of each quadratic equation. Then describe the number of real solutions.

13.  14. 

Solve by any method.

15  16. 

17. $-2(x-1)^{2}+1=-71$ 18. 