Name

 Class

 Date



4-9

**Practice**

Quadratic Systems

*Form G*

**Solve each system by graphing. Check your answers.**

**1. ** **2. **

**3.  4. **

**Solve each system by substitution. Check your answers.**

**5.  6. **

**7.  8. **

**9.  10. **

**11.  12. **

**13.  14. **

**15.  16. **

**17.  18. **

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Name

 Class

 Date



Quadratic Systems

4-9

**Practice** (continued)

*Form G*

**Solve each system.**

**19.  20. **

**21.  22. **

**23.  24. **

**Solve each system by graphing.**

**25.  26. **

**27.  28. **

**29.** In business, a break-even point is the point (*x*, *y*) at which the graphs of the revenue and cost functions intersect. For one manufacturing company, the revenue from producing *x* items is given by the function *y =* 2*x +* 12 and the cost of producing *x* items is given

by *y =* −*x*2 + 10*x +* 5. Find all break-even points.

**30.** Two skaters are practicing at the same time on the same rink. One skater follows the path *y =* −2*x +* 32, while the other skater follows the curve

 *y =* −2*x*2 + 18*x*. Find all points where they might collide if they are not careful.

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