



# Chapter Test C

For use after Chapter 9

Find the  $x$ -intercepts of the graph of the equation.

15.  $y = x^2 + 2x - 35$

16.  $y = x^2 + 2x - 48$

Decide how many solutions the equation has.

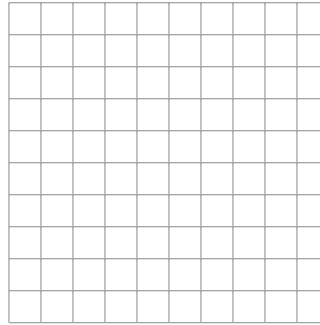
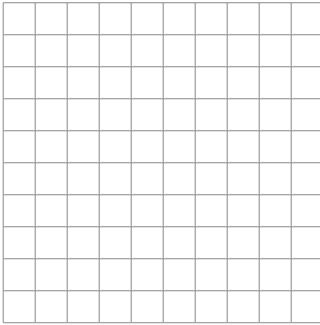
17.  $x^2 - 10x + 25 = 0$

18.  $x^2 + 8x + 19 = 0$

Sketch the graph of the inequality.

19.  $y \geq x^2 + 2x + 3$

20.  $y < x^2 - 6x + 5$



15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

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21. \_\_\_\_\_

22. \_\_\_\_\_

23. \_\_\_\_\_

24. \_\_\_\_\_

21. The revenue from selling  $x$  units of a product is given by  $y = -0.0002x^2 + 60x$ . How many units must be sold in order to have the greatest revenue? (Find the  $x$ -coordinate of the vertex of the parabola.)

Name the type of model that best fits the data.

