Name Date

Test B

Chapter

8

Graph the function. Compare the graph to the graph of 

Answers

 1. See left.

 2. See left.

 3. See left.

 4.

 5.

 6.

 7. See left.

 8. See left.

 9.

 10.

 11.

 12.

 13.

 14.

 1.  2.  3. 

   

Determine whether the function is *even*, *odd*, or *neither*.

 4.  5.  6. 

Use zeros to graph the function.

 7.  8. 

 

Tell whether the table of values represents a *linear*, an *exponential*, or a *quadratic* function. Then write the function.

 9. 10.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *x* |  |  | 0 | 1 | 2 |
| *y* | 4 | 2 | 1 | 0.5 | 0.25 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *x* |  | 0 | 1 | 2 | 3 |
| *y* | 10 | 12 | 14 | 16 | 18 |

 11. 12.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *x* |  | 0 | 1 | 2 | 3 |
| *y* | 5 | 3 | 5 | 11 | 21 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *x* |  | 0 | 1 | 2 | 3 |
| *y* |  |  |  |  | 4 |

Write a quadratic function in standard form whose graph satisfies the
given conditions.

 13. passes through 

 14. is even and has a range of 

Name Date

Test B **(continued)**

Chapter

8

Find the zeros of the function.

Answers

 15.

 16.

 17.

 18.

 19. a.

 b.

 c.

 d.

 20.

 21.

 22.

 23.

 24. a.

 b.

 25.

 26.

 15.  16. 

 17.  18. 

**** 19. Consider the graph of the function *f*.

 a. Find the domain, range, and zeros
of the function.

 b. Write the function *f* in standard form.

 c. Compare the graph of *f* to the graph
of 

 d. Compare the graph of *f* to the graph of


Find the vertex and axis of symmetry of the graph of the function.

 20.  21. 

 22.  23. 

 24. The table shows the number of customers *c* that came into a store over a number of hours *t*.

 a. Tell whether the data can be
modeled by a *linear*, an *exponential*,
or a *quadratic* function. Explain.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Hours, *t* | 1 | 2 | 3 | 4 |
| Customers, *c* | 3 | 9 | 19 | 33 |

 b. Write a function that models the data.

Plot the points. Tell whether the points appear to represent a *linear*, an *exponential*, or a *quadratic* function.

 25. 

 26. 