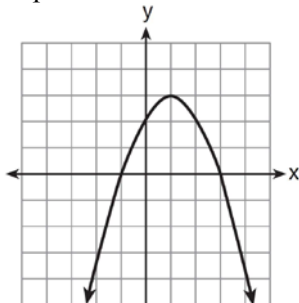
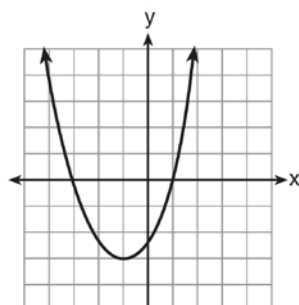


A.G.10: Identifying the Vertex of a Quadratic Given Graph 2: Determine the vertex and axis of symmetry of a parabola, given its graph

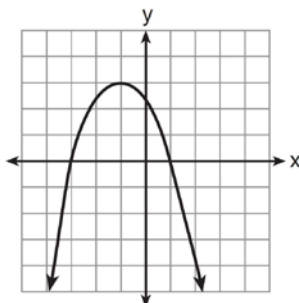
- 1 Which parabola has an axis of symmetry of $x = 1$?



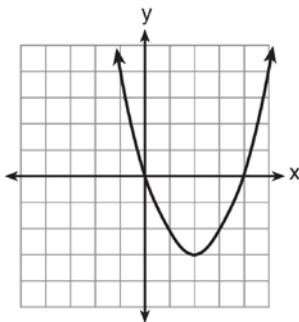
1)



2)

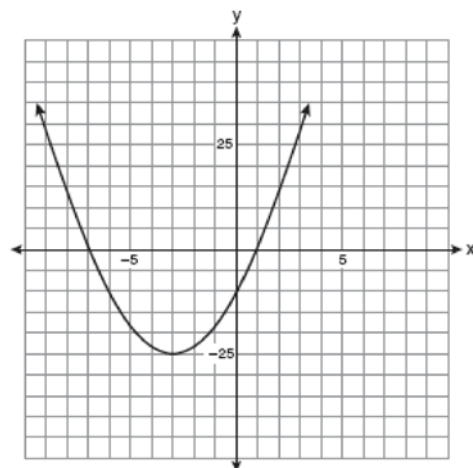


3)

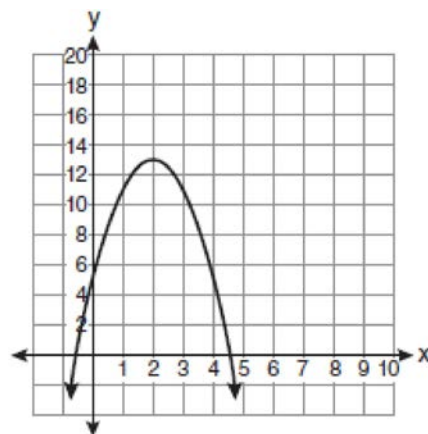


4)

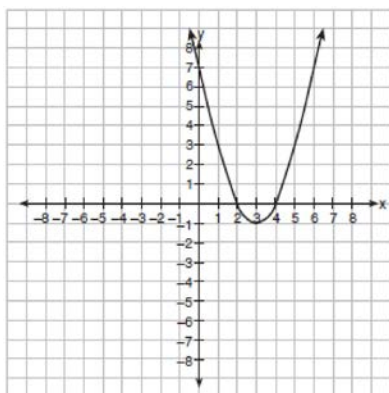
- 2 Which equation represents the axis of symmetry of the graph of the parabola below?



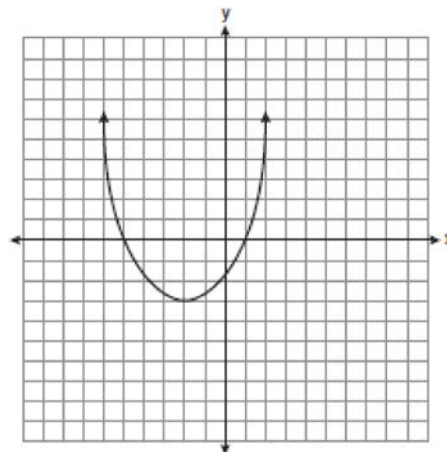
- 3 What is the equation of the axis of symmetry of the parabola shown in the diagram below?



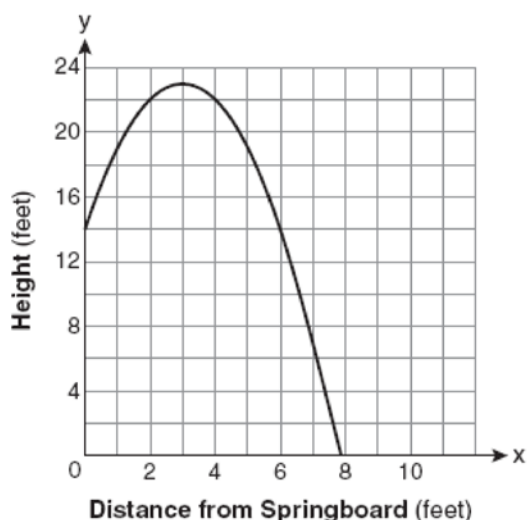
- 4 Which is an equation of the line of symmetry for the parabola in the accompanying diagram?



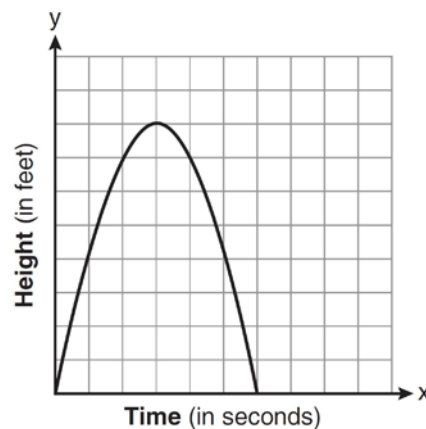
- 6 What are the vertex and the axis of symmetry of the parabola shown in the diagram below?



- 5 A swim team member performs a dive from a 14-foot-high springboard. The parabola below shows the path of her dive.

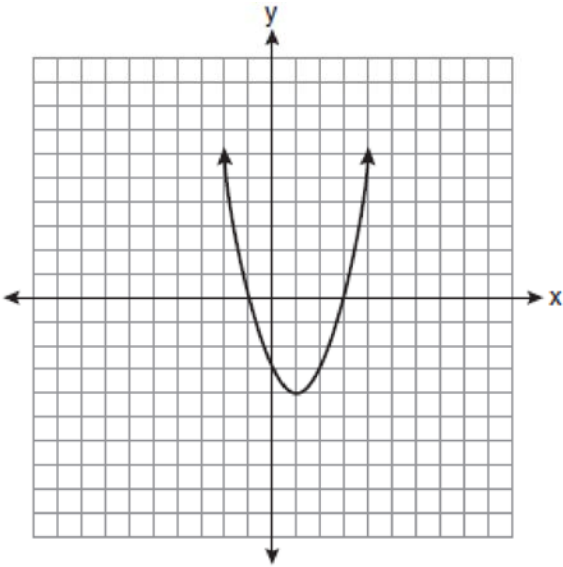


- 7 The graph below represents the parabolic path of a ball kicked by a young child. What are the vertex and the axis of symmetry for the parabola?

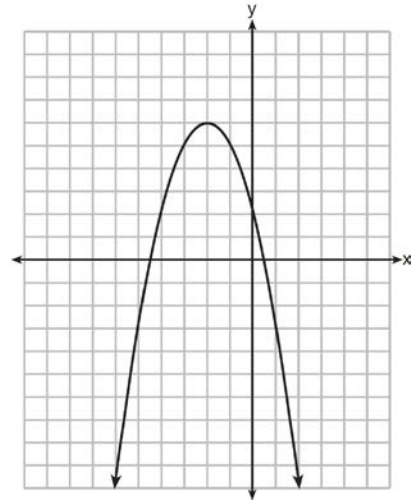


Which equation represents the axis of symmetry?

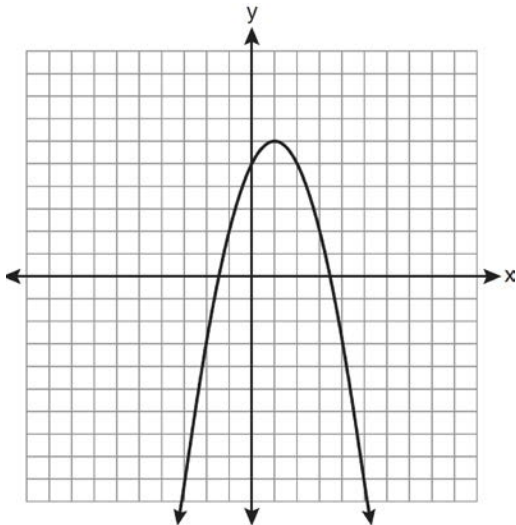
- 8 What are the vertex and axis of symmetry of the parabola shown in the diagram below?



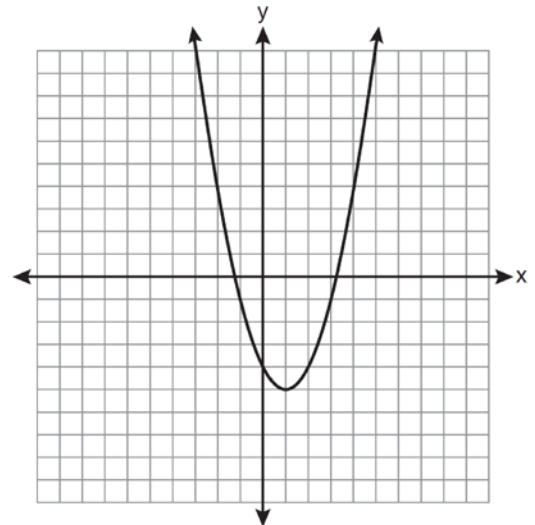
- 10 What are the coordinates of the vertex and the equation of the axis of symmetry of the parabola shown in the graph below?



- 9 What are the vertex and the axis of symmetry of the parabola shown in the graph below?



- 11 State the equation of the axis of symmetry and the coordinates of the vertex of the parabola graphed below.



A.G.10: Identifying the Vertex of a Quadratic Given Graph 2: Determine the vertex and axis of symmetry of a parabola, given its graph
Answer Section

1 ANS: 1 REF: 061420ia

2 ANS:
 $x = -3$

REF: 010916ia

3 ANS:
 $x = 2$

REF: 011015ia

4 ANS:
 $x = 3$

REF: 010606a

5 ANS:
 $x = 3$

REF: 080813ia

6 ANS:
 The vertex is $(-2, -3)$, and the axis of symmetry is $x = -2$.

REF: 060811ia

7 ANS:
 vertex: $(3, 8)$; axis of symmetry: $x = 3$

REF: 081405ia

8 ANS:
 vertex: $(1, -4)$; axis of symmetry: $x = 1$

REF: 061005ia

9 ANS:
 vertex: $(1, 6)$; axis of symmetry: $x = 1$

REF: 081111ia

10 ANS:
 $(-2, 6)$ and $x = -2$

REF: 081214ia

11 ANS:
 $x = 1$; $(1, -5)$

REF: 061133ia