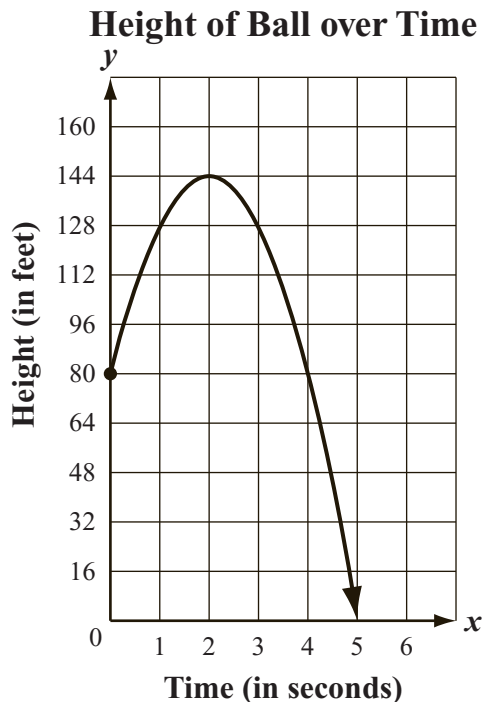


The graph below represents  $y$ , the height in feet of a ball,  $x$  seconds after the ball was thrown upward from a bridge that crosses a river.



- What is the  $y$ -intercept of the graph? Show or explain how you got your answer.
- What does the  $y$ -intercept represent in the context of this situation?
- After how many seconds did the ball reach its maximum height? Show or explain how you got your answer.
- What is the maximum height, in feet, the ball reached? Show or explain how you got your answer.
- After how many seconds did the ball reach the surface of the river? Show or explain how you got your answer.