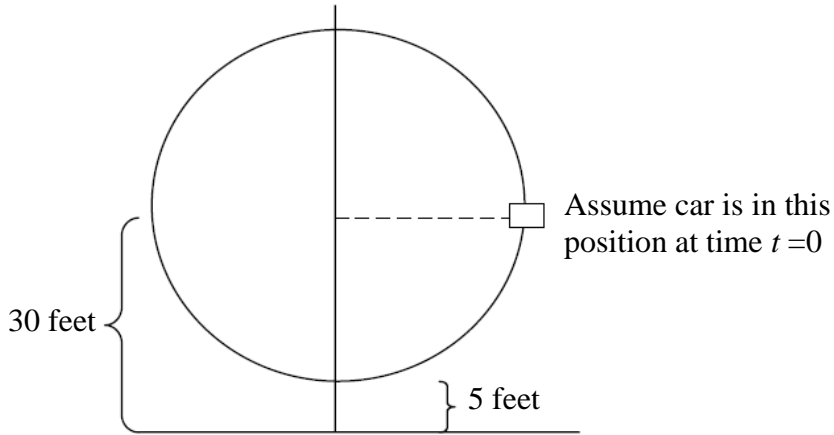
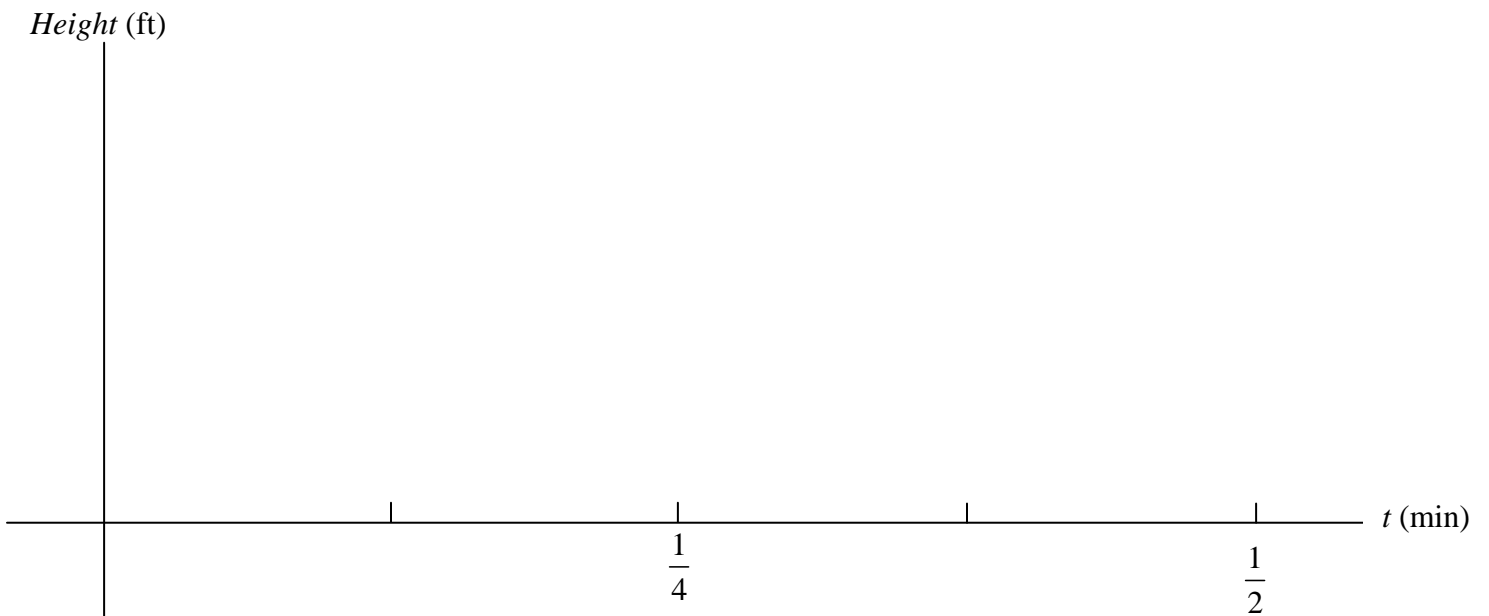


## Ferris Wheel

A ferris wheel 50 ft in diameter makes 4 revolutions in one minute.  
The center of the wheel is 30 ft. above the ground. Assume the car travels counterclockwise.



Without using an equation,  
graph the height of the Ferris Wheel car, in feet, for a half minute ride.  
At  $t = 0$ , assume the car is in the position shown above.



Suppose the height of the Ferris Wheel you graphed is given by  $y = H(t)$ .

1. Describe how the graph of  $f(t) = H(t) + 2$  is related to the graph of  $y = H(t)$ . Hint: Read **5.1**
  
2. Interpret what  $f(t)$  means in real life terms. Be specific.  
(Describe the properties of the Ferris Wheel.)