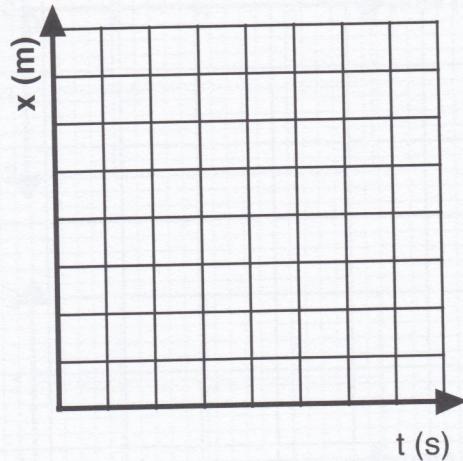


Worksheet 3: Position vs. Time Graphs

1. Robin, rollerskating down a marked sidewalk, was observed at the following positions at the times listed below:

t (s)	x (m)
0.0	10.0
1.0	12.0
2.0	14.0
5.0	20.0
8.0	26.0
10.0	30.0



- Plot a position vs. time graph for the skater.
- Explain how you can use the graph to determine how far he was from the origin at $t = 6.0$ s.
- Write a mathematical expression that describes the skater's motion.
- Was his speed constant over the entire interval? How do you know?