

Quiz 1

Name: _____

A ship leaves New York. For the first two hours it moves at 20mph, it then speeds up to 30mph. Let t be the time in hours since the ship left New York and D the distance of the ship from New York.

1. Graph the speed of the ship as a function of the time for $0 \leq t \leq 10$.

2. How far does the ship cover in the first two hours?

3. Find a formula for D in terms of t for $2 < t < 10$.