Quiz

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. Find a formula for D in terms of t in the interval 0 < t < 1.

2. Find a formula for D in terms of t when t > 1.

3. How long does it take the ship too get 1000miles form New York?