Section _____ **Name** _____

TA _____ **Student Number** _____

Math 126B **Calculus With Analytic Geometry III** **Spring 1995**

QUIZ #2

4/11/95

Straight lines must be drawn with a ruler; no credit will be given if drawn by hand. Don't worry about algebraically simplifying numbers (i.e. you may leave radicals in the denominator, fractions unreduced, etc.). **Show your work.**

1. The point $P(t)$ moves at constant speed on the line shown below. We know the following information: $P(0) = A$ and $P(1) = B$.

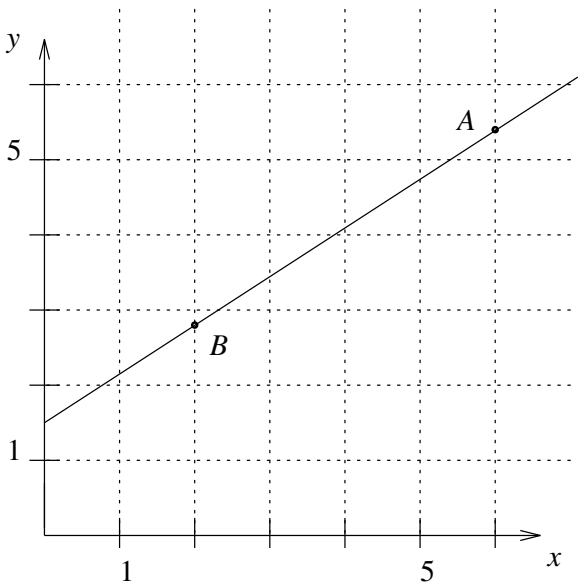
   (a) Write a parameter representation for $P(t)$ in the following form:

   $x(t) =$ _____

   $y(t) =$ _____

   (b) What is the speed of $P(t)$?

   speed $=$ _____

   (c) At what time t does $P(t)$ cross the x-axis?

   $t =$ _____