Section _____ **Name** _____

TA _____ **Student Number** _____

Math 126A **Calculus With Analytic Geometry III** **Fall 1995**

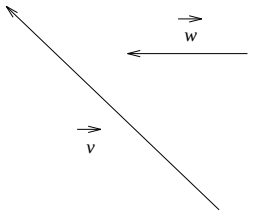
QUIZ #2

10/5/95

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 vector $\vec{a}$ has components $(2, -3)$. Find the components of a vector $\vec{b}$ which is parallel to $\vec{a}$ and has length 10.

$\vec{b} =$ ____

2. The vectors $\vec{v}$ and $\vec{w}$ are shown below. Find a scalar c such that $|\vec{v} + c\vec{w}| = 4$.

$c =$ ____