Name:

Tuesday section time:

Student ID:

Math 20F - Linear Algebra - Winter 2003

Quiz
$$\#6\frac{6}{10}$$
 — March 11

Do not hand in this quiz: it is for self-assessment.

Try this quiz without referring to the answers (on back of paper copy) first!

1. Let
$$A = \begin{pmatrix} 1 & 2 & 1 \\ 0 & 2 & 0 \\ 0 & 0 & 4 \end{pmatrix}$$
.

Find all the eigenvariables of A, and an associated eigenvector for each eigenvector. Check your answers by computing $A\mathbf{x}$ for each eigenvector \mathbf{x} .

2. Repeat the above problem with $A = \begin{pmatrix} 1 & 3 \\ 3 & 1 \end{pmatrix}$.