MATH 3333 Quiz 5 Dec. 1,2008

Let

$$
A=\left[\begin{array}{ccc}
-1 & 0 & -1 \\
-2 & 1 & -2 \\
0 & 0 & 2
\end{array}\right]
$$

Find the eigenvalues and corresponding eigenvectors. Find an invertible matrix $P$ and diagonal matrix $D$ and CHECK that $P^{-1} A P=D$.

