

PROBLEM SET # 10
MATH 252

Due November 14.

1. Let Q be a connected quiver and $k(Q)$ be the path algebra of Q . Show that the center of $k(Q)$ is isomorphic either to k , or to $k[x]$, and that the latter happens only in the case when Q is an oriented cycle.

2. Classify indecomposable representations of the quiver:



3. Classify indecomposable representations of the quiver:

