Special Problem 2-5.10 Evaluate the integral: $\int_{c} \boldsymbol{G}(\bar{\boldsymbol{r}}) \cdot \overline{d\ell}$ where $oldsymbol{G}(ar{r})$ is some arbitrary vector field equal to: $\boldsymbol{G}(\boldsymbol{\overline{r}}) = \pi r \sin \phi \ \hat{\boldsymbol{a}}_r + 2 \ \hat{\boldsymbol{a}}_\theta + r^2 \ \hat{\boldsymbol{a}}_\phi$ and contour C lies on the y-z plane as shown below: λZ circular arc π r=2 > Y Х <u>с</u> The Univ. of Kansas Dept. of EECS **Jim Stiles**