## Special Problem 2-5.16

Consider the vector field $\mathbf{A}(\bar{r})$ :

$$
\mathbf{A}(\bar{r})=\rho^{2} \hat{a}_{x}+\rho z \hat{a}_{y}
$$

There exists a contour Cin space where at every point along the contour, vector A has the quantity:

$$
\boldsymbol{A}\left(\bar{r}_{c}\right)=4 \hat{a}_{x}+6 \hat{a}_{y}
$$

Describe this contour C mathematically.
Hint: How do we mathematically describe/specify contours?

