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** C in space where at **every** point along the contour, vector **A** has the quantity:

$$\mathbf{A}(\bar{r}_c) = 4 \, \hat{a}_x + 6 \, \hat{a}_y$$

Describe this contour C **mathematically**.

Hint: How **do** we mathematically describe/specify contours?