Curl in cylindrical coordinates can be written in several ways:

$$\begin{vmatrix} \frac{1}{\rho} \hat{\rho} & \hat{\phi} & \frac{1}{\rho} \hat{z} \\ \frac{\partial}{\partial \rho} & \frac{\partial}{\partial \phi} & \frac{\partial}{\partial z} \\ A_{\rho} & \rho A_{\phi} & A_{z} \end{vmatrix} = \frac{1}{\rho} \begin{vmatrix} \hat{\rho} & \rho \hat{\phi} & \hat{z} \\ \frac{\partial}{\partial \rho} & \frac{\partial}{\partial \phi} & \frac{\partial}{\partial z} \\ A_{\rho} & \rho A_{\phi} & A_{z} \end{vmatrix}$$

The first form is as per the Physics *Mathematical Formula* handbook. To get to the second form, take out a $1/\rho$ from the top row.