RectangularCoordinates	
$\nabla\psi$	$\frac{\partial\psi}{\partial x}\mathbf{u_x}+\frac{\partial\psi}{\partial y}\mathbf{u_y}+\frac{\partial\psi}{\partial z}\mathbf{u_z}$
$\nabla\cdot\mathbf{A}$	$\frac{\partial A_x}{\partial x}+\frac{\partial A_y}{\partial y}+\frac{\partial A_z}{\partial z}$
$\nabla\times\mathbf{A}$	$\left[\frac{\partial A_z}{\partial y}-\frac{\partial A_y}{\partial z}\right]\mathbf{u_x}-\left[\frac{\partial A_z}{\partial x}-\frac{\partial A_x}{\partial z}\right]\mathbf{u_y}+\left[\frac{\partial A_y}{\partial x}-\frac{\partial A_x}{\partial y}\right]\mathbf{u_z}$
$\nabla^2\psi$	$\frac{\partial^2 A_x}{\partial x^2}+\frac{\partial^2 A_y}{\partial y^2}+\frac{\partial^2 A_z}{\partial z^2}$
$\nabla^2\mathbf{A}$	$(\nabla^2 A_x)\mathbf{u_x}+(\nabla^2 A_y)\mathbf{u_y}+(\nabla^2 A_z)\mathbf{u_z}$
CylindricalCoordinates	
$\nabla\psi$	$\frac{\partial\psi}{\partial r}\mathbf{u_r}+\frac{1}{r}\frac{\partial\psi}{\partial\phi}\mathbf{u}_\phi+\frac{\partial\psi}{\partial z}\mathbf{u_z}$
$\nabla\cdot\mathbf{A}$	$\frac{A_r}{r}+\frac{\partial A_r}{\partial r}+\frac{1}{r}\frac{\partial A_\phi}{\partial\phi}+\frac{\partial A_z}{\partial z}$
$\nabla\times\mathbf{A}$	$\left[\frac{1}{r}\frac{\partial A_z}{\partial\phi}-\frac{\partial A_\phi}{\partial z}\right]\mathbf{u_r}+\left[\frac{\partial A_r}{\partial z}-\frac{\partial A_z}{\partial r}\right]\mathbf{u}_\phi+\left[\frac{1}{r}\frac{\partial(rA_\phi)}{\partial r}-\frac{1}{r}\frac{\partial A_r}{\partial\phi}\right]\mathbf{u_z}$
$\nabla^2\psi$	$\frac{1}{r}\frac{\partial}{\partial r}r\left[\frac{\partial\psi}{\partial r}\right]+\frac{1}{r^2}\frac{\partial^2\psi}{\partial\phi^2}+\frac{\partial^2\psi}{\partial z^2}$
$\nabla^2\mathbf{A}$	$\left[\nabla^2 A_r-\frac{2}{r^2}\frac{\partial A_\phi}{\partial\phi}-\frac{A_r}{r^2}\right]\mathbf{u_r}+\left[\nabla^2 A_\phi+\frac{2}{r^2}\frac{\partial A_r}{\partial\phi}-\frac{A_\phi}{r^2}\right]\mathbf{u}_\phi+(\nabla^2 A_z)\mathbf{u_z}$
SphericalCoordinates	
$\nabla\psi$	$\frac{\partial\psi}{\partial R}\mathbf{u_R}+\frac{1}{R}\frac{\partial\psi}{\partial\theta}\mathbf{u}_\theta+\frac{1}{R\sin\theta}\frac{\partial\psi}{\partial\phi}\mathbf{u}_\phi$
$\nabla\cdot\mathbf{A}$	$\frac{1}{R^2}\frac{\partial}{\partial R}(R^2A_R)+\frac{1}{R\sin\theta}\frac{\partial}{\partial\theta}(A_\theta\sin\theta)+\frac{1}{R\sin\theta}\frac{\partial A_\phi}{\partial\phi}$
$\nabla\times\mathbf{A}$	$\frac{1}{R\sin\theta}\left[\frac{\partial}{\partial\theta}(A_\phi\sin\theta)-\frac{\partial A_\theta}{\partial\phi}\right]\mathbf{u_R}+\frac{1}{R}\left[\frac{1}{\sin\theta}\frac{\partial A_R}{\partial\phi}-\frac{\partial}{\partial R}(RA_\phi)\right]\mathbf{u}_\theta+\frac{1}{R}\left[\frac{\partial(RA_\theta)}{\partial R}-\frac{\partial A_R}{\partial\theta}\right]\mathbf{u}_\phi$
$\nabla^2\psi$	$\frac{1}{R^2}\frac{\partial}{\partial R}\left(R^2\frac{\partial\psi}{\partial R}\right)+\frac{1}{R^2\sin\theta}\frac{\partial}{\partial\theta}\left(\sin\theta\frac{\partial\psi}{\partial\theta}\right)+\frac{1}{R^2\sin^2\theta}\frac{\partial^2\psi}{\partial\phi^2}$
$\nabla^2\mathbf{A}$	$\left[\nabla^2 A_R-\frac{2}{R^2}\left(A_R+A_\theta\cot\theta+\frac{\partial A_\phi}{\partial\phi}\csc\theta+\frac{\partial A_\theta}{\partial\theta}\right)\right]\mathbf{u_R}$ $+\left[\nabla^2 A_\theta-\frac{1}{R^2}\left(A_\theta\csc^2\theta-2\frac{\partial A_R}{\partial\theta}+\frac{\partial A_\phi}{\partial\phi}2\cot\theta\csc\theta\right)\right]\mathbf{u}_\theta$ $+\left[\nabla^2 A_\phi-\frac{1}{R^2}\left(A_\phi\csc^2\phi-2\frac{\partial A_R}{\partial\phi}\csc\theta-\frac{\partial A_\theta}{\partial\phi}2\cot\theta\csc\theta\right)\right]\mathbf{u}_\phi$