$$\frac{1}{r^2}\frac{\partial}{\partial r}\left(r^2(u)\right)\hat{\boldsymbol{r}} + \frac{1}{r\sin\theta}\frac{\partial}{\partial\theta}(\sin\theta(v))\hat{\boldsymbol{\theta}} + \frac{1}{r\sin\theta}\frac{\partial}{\partial\phi}(w)\hat{\boldsymbol{\phi}}$$