$$\begin{split} \frac{\partial^2 U}{\partial r^2} &= \\ \frac{r\sqrt{r^2\sin^2\left(\theta\right)}\sin\left(\theta\right)\frac{\partial}{\partial r}U(r,\theta,\phi)}{(r^2)^{\frac{3}{2}}} - \frac{2r\sqrt{r^2\sin^2\left(\theta\right)}\cos\left(\theta\right)\frac{\partial^2}{\partial \theta}U(r,\theta,\phi)}{(r^2)^{\frac{3}{2}}} + \frac{\sqrt{r^2\sin^2\left(\theta\right)}\cos\left(\theta\right)\frac{\partial}{\partial \theta}U(r,\theta,\phi)}{(r^2)^{\frac{3}{2}}} + \\ \cos^2\left(\theta\right)\frac{\partial^2}{\partial r^2}U(r,\theta,\phi) + \frac{\sin^2\left(\theta\right)\frac{\partial^2}{\partial \theta^2}U(r,\theta,\phi)}{r^2} + \frac{\sin\left(2\theta\right)\frac{\partial}{\partial \theta}U(r,\theta,\phi)}{2r^2} \end{split}$$

$$\frac{\partial^2 U}{\partial y^2} = \frac{r^3 \sin^2(\theta) \cos^2(\phi) \cos(\theta) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{\sqrt{r^2 \sin^2(\theta)(r^2)^{\frac{3}{2}}}} + \frac{r^3 \sin(\theta) \cos^2(\phi) \cos^2(\theta) \frac{\partial}{\partial r} U(r,\theta,\phi)}{\sqrt{r^2 \sin^2(\theta)(r^2)^{\frac{3}{2}}}} + \frac{r^3 \sin^4(\theta) \cos^2(\phi) \cos(\theta) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{\sqrt{r^2 \sin^2(\theta)(r^2)^{\frac{3}{2}}}} + \frac{r^3 \sin^4(\theta) \cos^2(\phi) \cos(\theta) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{(r^2 \sin^2(\theta))^{\frac{3}{2}} \sqrt{r^2}} + \frac{r^2 \sin(\phi) \cos(\phi) \frac{\partial^2}{\partial r^2 \phi} U(r,\theta,\phi)}{(r^2)^{\frac{3}{2}}} + \frac{r^2 \sin^4(\theta) \cos^2(\phi) \cos(\theta) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{(r^2 \sin^2(\theta))^{\frac{3}{2}} \sqrt{r^2}} + \frac{\sin^2(\theta) \cos^2(\phi) \frac{\partial^2}{\partial r^2 \phi} U(r,\theta,\phi)}{(r^2 \sin^2(\theta))^{\frac{3}{2}} \sqrt{r^2}} + \frac{\sin^2(\theta) \cos^2(\phi) \frac{\partial^2}{\partial r^2 \phi} U(r,\theta,\phi)}{(r^2 \sin^2(\theta))^{\frac{3}{2}} \sqrt{r^2}} + \frac{2 \sin(\phi) \cos(\phi) \frac{\partial^2}{\partial \phi} U(r,\theta,\phi)}{r^2 \cos^2(\theta) + 2r^2} - \frac{2 \cos^2(\phi) \frac{\partial^2}{\partial \phi^2} U(r,\theta,\phi)}{r \sqrt{r^2 \cos^2(\theta) + 2r^2}} + \frac{2 \sin(\phi) \cos(\phi) \frac{\partial}{\partial \phi} U(r,\theta,\phi)}{r \sqrt{r^2 \sin^2(\theta)}} + \frac{2 \sin(\phi) \cos(\phi) \frac{\partial}{\partial \phi} U(r,\theta,\phi)}{r \sqrt{r^2 \sin^2(\theta)}} + \frac{2 \cos^2(\phi) \cos(\theta) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r \sqrt{r^2 \sin^2(\theta)} \sin(\theta)} + \frac{\sin(\phi) \cos^2(\phi) \cos(\theta) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^2} + \frac{\cos^2(\phi) \cos^2(\theta) \frac{\partial^2}{\partial \theta^2 \phi} U(r,\theta,\phi)}{r \sqrt{r^2 \sin^2(\theta)} \sin(\theta)} + \frac{\sin(\phi) \cos^2(\phi) \cos(\theta) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^2} + \frac{\cos^2(\phi) \cos^2(\theta) \frac{\partial^2}{\partial \theta^2 \phi} U(r,\theta,\phi)}{r^2} + \frac{\cos^2(\phi) \cos^2(\theta) \frac{\partial^2}{\partial \theta^2 \phi} U(r,\theta,\phi)}{r^2} + \frac{\cos^2(\phi) \cos^2(\theta) \frac{\partial^2}{\partial \theta^2 \phi} U(r,\theta,\phi)}{r^2} + \frac{\sin(\phi) \cos^2(\phi) \cos(\theta) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^2} + \frac{\cos^2(\phi) \cos^2(\theta) \frac{\partial^2}{\partial \theta^2 \phi} U(r,\theta,\phi)$$

$$\frac{\partial^2 U}{\partial z^2} = \frac{r^3 \sin^2(\phi) \sin^2(\theta) \cos(\theta) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{\sqrt{r^2 \sin^2(\theta)} (r^2)^{\frac{3}{2}}} + \frac{r^3 \sin^2(\phi) \sin(\theta) \cos^2(\theta) \frac{\partial}{\partial r} U(r,\theta,\phi)}{\sqrt{r^2 \sin^2(\theta)} (r^2)^{\frac{3}{2}}} + \frac{r^3 \sin^2(\phi) \sin^4(\theta) \cos(\theta) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{(r^2 \sin^2(\theta))^{\frac{3}{2}} \sqrt{r^2}} + \frac{r^2 \sin^2(\phi) \sin^4(\theta) \cos(\phi) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{(r^2)^{\frac{3}{2}}} + \frac{r^2 \sin^2(\phi) \sin^4(\theta) \cos(\phi) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^2} + \frac{r^2 \sin^2(\phi) \sin(\phi) \cos(\phi) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^2} + \frac{r^2 \sin^2(\phi) \cos(\phi) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^2} + \frac{r^2 \cos^2(\phi) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^2} + \frac{r$$

$$\begin{split} \frac{\partial^2 U}{\partial x \partial y} &= \\ \sin\left(\theta\right) \cos\left(\phi\right) \cos\left(\theta\right) \frac{\partial^2}{\partial r^2} U(r,\theta,\phi) + \frac{\sin\left(\phi\right) \sin\left(\theta\right) \frac{\partial^2}{\partial \theta \partial \phi} U(r,\theta,\phi)}{r \sqrt{r^2 \sin^2(\theta)}} - \frac{\sin\left(\theta\right) \cos\left(\phi\right) \cos\left(\phi\right) \cos\left(\theta\right) \frac{\partial^2}{\partial \theta^2} U(r,\theta,\phi)}{r^2} - \\ \frac{\cos\left(\phi\right) \cos^2\left(\theta\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^2} - \frac{\left(r^2\right)^{\frac{3}{2}} \sin^3\left(\theta\right) \cos\left(\phi\right) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{r^3 \sqrt{r^2 \sin^2(\theta)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \sin\left(2\theta\right) \cos\left(\phi\right) \cos\left(\phi\right) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{2r^3 \sqrt{r^2 \sin^2(\theta)}} + \\ \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\theta\right) \cos\left(2\theta\right) \frac{\partial}{\partial r} U(r,\theta,\phi)}{2r^3 \sqrt{r^2 \sin^2(\theta)}} - \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\theta\right) \frac{\partial}{\partial r} U(r,\theta,\phi)}{2r^3 \sqrt{r^2 \sin^2(\theta)}} - \frac{\left(r^2\right)^{\frac{3}{2}} \sin\left(\phi\right) \cos\left(\theta\right) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{r^4 \sin\left(\theta\right)} + \\ \frac{\left(r^2\right)^{\frac{3}{2}} \sin^3\left(\theta\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} - \frac{\left(r^2\right)^{\frac{3}{2}} \sin^3\left(\theta\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} + \\ \frac{\left(r^2\right)^{\frac{3}{2}} \sin^3\left(\theta\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} - \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\theta\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} + \\ \frac{\left(r^2\right)^{\frac{3}{2}} \sin^3\left(\theta\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} - \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} + \\ \frac{\left(r^2\right)^{\frac{3}{2}} \sin^3\left(\theta\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} - \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\theta)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\phi)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\phi)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\phi\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2(\phi)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right)$$

$$\begin{split} \frac{\partial^2 U}{\partial x \partial z} &= \\ \sin\left(\phi\right) \sin\left(\theta\right) \cos\left(\theta\right) \frac{\partial^2}{\partial r^2} U(r,\theta,\phi) - \frac{\sin\left(\theta\right) \cos\left(\phi\right) \frac{\partial^2}{\partial \theta \partial \phi} U(r,\theta,\phi)}{r \sqrt{r^2 \sin^2\left(\theta\right)}} - \frac{\sin\left(\phi\right) \sin\left(\theta\right) \cos\left(\theta\right) \frac{\partial^2}{\partial \theta^2} U(r,\theta,\phi)}{r^2} - \\ \frac{\sin\left(\phi\right) \cos^2\left(\theta\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^2} - \frac{\left(r^2\right)^{\frac{3}{2}} \sin\left(\phi\right) \sin^3\left(\theta\right) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{r^3 \sqrt{r^2 \sin^2\left(\theta\right)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \sin\left(\phi\right) \sin\left(2\theta\right) \cos\left(\theta\right) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{2r^3 \sqrt{r^2 \sin^2\left(\theta\right)}} + \\ \frac{\left(r^2\right)^{\frac{3}{2}} \sin\left(\phi\right) \cos\left(\theta\right) \cos\left(2\theta\right) \frac{\partial}{\partial r} U(r,\theta,\phi)}{2r^3 \sqrt{r^2 \sin^2\left(\theta\right)}} - \frac{\left(r^2\right)^{\frac{3}{2}} \sin\left(\phi\right) \cos\left(\theta\right) \frac{\partial}{\partial r} U(r,\theta,\phi)}{2r^3 \sqrt{r^2 \sin^2\left(\theta\right)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos\left(\phi\right) \cos\left(\theta\right) \frac{\partial^2}{\partial r \partial \phi} U(r,\theta,\phi)}{r^4 \sin\left(\theta\right)} + \\ \frac{\left(r^2\right)^{\frac{3}{2}} \sin\left(\phi\right) \sin^3\left(\theta\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^4 \sqrt{r^2 \sin^2\left(\theta\right)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos^2\left(\phi\right) \cos^2\left(\phi\right) \cos^2\left(\phi\right) \cos^2\left(\phi\right)}{r^4 \sqrt{r^2 \sin^2\left(\theta\right)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos^2\left(\phi\right) \cos^2\left(\phi\right) \cos^2\left(\phi\right) \cos^2\left(\phi\right)}{r^4 \sin^2\left(\phi\right)} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos^2\left(\phi\right) \cos^2\left(\phi\right) \cos^2\left(\phi\right)}{r^4 \sin^2\left(\phi\right)} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos^2\left(\phi\right) \cos^2\left(\phi\right) \cos^2\left(\phi\right)}{r^4 \sin^2\left(\phi\right)} + \frac{\left(r^2\right)^{\frac{3}{2}} \sin^2\left(\phi\right) \sin^2\left(\phi\right)}{r^4 \sqrt{r^2 \sin^2\left(\theta\right)}} + \frac{\left(r^2\right)^{\frac{3}{2}} \sin^2\left(\phi\right) \cos^2\left(\phi\right) \cos^2\left(\phi\right)}{r^4 \sin^2\left(\phi\right)} + \frac{\left(r^2\right)^{\frac{3}{2}} \sin^2\left(\phi\right) \cos^2\left(\phi\right)}{r^4 \sin^2\left(\phi\right)} + \frac{\left(r^2\right)^{\frac{3}{2}} \sin^2\left(\phi\right)}{r^4 \sin^2\left(\phi\right)} + \frac{\left(r^2\right)^{\frac{$$

$$\frac{\partial^2 U}{\partial y \partial z} = \\ \frac{\sin \left(\phi\right) \sin^2 \left(\theta\right) \cos \left(\phi\right) \frac{\partial^2}{\partial r^2} U(r,\theta,\phi) - \frac{\sin \left(\phi\right) \sin \left(\theta\right) \cos \left(\phi\right) \cos \left(\theta\right) \frac{\partial}{\partial \theta} U(r,\theta,\phi)}{r^2} + \frac{\sin \left(\phi\right) \cos \left(\phi\right) \cos^2 \left(\theta\right) \frac{\partial^2}{\partial \theta^2} U(r,\theta,\phi)}{r^2} - \frac{\sin \left(\phi\right) \cos \left(\phi\right) \frac{\partial^2}{\partial \phi^2} U(r,\theta,\phi)}{r^2 \sin^2 \left(\theta\right)} - \frac{\cos^2 \left(\phi\right) \frac{\partial}{\partial \phi} U(r,\theta,\phi)}{r^2 \sin^2 \left(\theta\right)} - \frac{\left(r^2\right)^{\frac{3}{2}} \sin^2 \left(\phi\right) \frac{\partial^2}{\partial r \partial \phi} U(r,\theta,\phi)}{r^4} - \frac{\left(r^2\right)^{\frac{3}{2}} \sin \left(\phi\right) \cos \left(\phi\right) \frac{\partial}{\partial r} U(r,\theta,\phi)}{r^4} + \frac{\left(r^2\right)^{\frac{3}{2}} \cos^2 \left(\phi\right) \frac{\partial^2}{\partial r \partial \phi} U(r,\theta,\phi)}{r^5 \sin^4 \left(\theta\right)} - \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \cos^2 \left(\phi\right) \cos \left(\theta\right) \frac{\partial^2}{\partial \theta} U(r,\theta,\phi)}{r^5 \sin^4 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \cos^2 \left(\phi\right) \cos \left(\theta\right) \frac{\partial^2}{\partial \theta \partial \phi} U(r,\theta,\phi)}{r^5 \sin^4 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \sin^2 \left(\phi\right) \cos \left(\theta\right) \frac{\partial^2}{\partial \theta \partial \phi} U(r,\theta,\phi)}{r^7 \sin^6 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \sin^2 \left(\phi\right) \cos \left(\theta\right) \frac{\partial^2}{\partial \theta \partial \phi} U(r,\theta,\phi)}{r^7 \sin^6 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \left(r^2\right)^{\frac{3}{2}} \sin \left(\phi\right) \cos \left(\phi\right) \cos \left(\theta\right) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{r^7 \sin^2 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \left(r^2\right)^{\frac{3}{2}} \sin \left(\phi\right) \cos \left(\phi\right) \cos \left(\theta\right) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{r^7 \sin^2 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \left(r^2\right)^{\frac{3}{2}} \sin \left(\phi\right) \cos \left(\phi\right) \cos \left(\theta\right) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{r^7 \sin^2 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \left(r^2\right)^{\frac{3}{2}} \sin \left(\phi\right) \cos \left(\phi\right) \cos \left(\theta\right) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{r^7 \sin^2 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \left(r^2\right)^{\frac{3}{2}} \sin \left(\phi\right) \cos \left(\phi\right) \cos \left(\theta\right) \frac{\partial^2}{\partial \theta \partial r} U(r,\theta,\phi)}{r^7 \sin^2 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \left(r^2\right)^{\frac{3}{2}} \sin \left(\phi\right) \cos \left(\phi\right) \cos \left(\phi\right) \cos^2 \left(\theta\right) \frac{\partial^2}{\partial r} U(r,\theta,\phi)}{r^7 \sin^2 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \left(r^2\right)^{\frac{3}{2}} \sin \left(\phi\right) \cos \left(\phi\right) \cos \left(\phi\right) \cos^2 \left(\theta\right) \frac{\partial^2}{\partial r} U(r,\theta,\phi)}{r^7 \sin^2 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \left(r^2\right)^{\frac{3}{2}} \sin \left(\phi\right) \cos \left(\phi\right) \cos \left(\phi\right) \cos^2 \left(\theta\right) \frac{\partial^2}{\partial r} U(r,\theta,\phi)}{r^7 \sin^2 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \left(r^2\right)^{\frac{3}{2}} \sin \left(\phi\right) \cos \left(\phi\right) \cos \left(\phi\right) \cos^2 \left(\theta\right) \frac{\partial^2}{\partial r} U(r,\theta,\phi)}{r^7 \sin^2 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right)\right)^{\frac{3}{2}} \left(r^2\right)^{\frac{3}{2}} \sin \left(\phi\right) \cos \left(\phi\right) \cos \left(\phi\right) \cos^2 \left(\theta\right) \frac{\partial^2}{\partial r} U(r,\theta,\phi)}{r^7 \sin^2 \left(\theta\right)} + \frac{\left(r^2\sin^2 \left(\theta\right$$

$$\omega^{2} \cdot \left(12.0A^{3} \sin^{2}\left(\theta\right) - 24.0A^{3} - 24.0A^{2} \sin^{2}\left(\theta\right) + 48.0A^{2} + 12.0A \sin^{2}\left(\theta\right) - 22.4A - 1.6\right)$$

$$36A (A - 1)^{2} \cdot \left(7A\omega^{2} \left(-0.8A^{5} + 2.4A^{4} - 2.0A^{3} + 0.4A^{2} (A - 1)^{3} \sin^{2}(\theta) + 0.4\right) - 1\right) \sin(\theta)$$