$$E_{rr} = -\frac{12GQ}{r^5} \left(3\cos^2(\theta) - 1 \right)$$

$$E_{r\theta} = -\frac{24GQ}{r^5} \sin(\theta) \cos(\theta)$$

$$E_{\theta\theta} = \frac{3GQ}{r^5} \left(-\sin^2(\theta) + 6\cos^2(\theta) - 2 \right)$$

$$(5)$$

$$(6)$$