$$\cos(r\sin\theta) = \sum_{n=0}^{\infty} \varepsilon_n \cos(2n\theta) J_{2n}(r)$$

$$\cos(r\cos\theta) = \sum_{n=0}^{\infty} (-1)^n \varepsilon_n \cos(2n\theta) J_{2n}(r)$$

$$\sin(r\sin\theta) = 2\sum_{n=0}^{\infty} \sin((2n+1)\theta) J_{2n+1)}(r)$$

$$\sin(r\cos\theta) = 2\sum_{n=0}^{\infty} (-1)^n \cos((2n+1)\theta) J_{2n+1)}(r)$$