2 potentzialak:

$$\frac{1}{|\bar{R}-\bar{r}|} = \sum_{l=0}^{\infty} A_l P_l(\cos\theta) \quad \text{kasu} \quad r < R:$$

$$\frac{1}{|\bar{R}-\bar{r}|} = \frac{1}{R}\frac{1}{\sqrt{1-2\frac{r}{R}\cos\theta+\left(\frac{r}{R}\right)^2}} \overset{\theta=0}{=} \frac{1}{R}\frac{1}{1-\frac{r}{R}} = \frac{1}{R}\sum_{l=0}^{\infty}\left(\frac{r}{R}\right)^l P_l(1)$$

$$\Rightarrow A_l = \frac{1}{R}\left(\frac{r}{R}\right)^l \qquad \frac{1}{|\bar{R}-\bar{r}|} = \frac{1}{R}\sum_{l=0}^{\infty}\left(\frac{r}{R}\right)^l P(\cos\theta)$$