

$$\begin{aligned}
&\text{potential } \widehat{x:y:zV} = \overline{x^2 + y^2 + z^2}^{-1/2} \\
\text{force } \left\{ \begin{aligned} \partial_x V &= -\frac{1}{2} \overline{x^2 + y^2 + z^2}^{-3/2} 2x &= -\frac{x}{\overline{x^2 + y^2 + z^2}^{3/2}} \\ \partial_y V &= -\frac{1}{2} \overline{x^2 + y^2 + z^2}^{-3/2} 2y &= -\frac{y}{\overline{x^2 + y^2 + z^2}^{3/2}} \\ \partial_z V &= -\frac{1}{2} \overline{x^2 + y^2 + z^2}^{-3/2} 2z &= -\frac{z}{\overline{x^2 + y^2 + z^2}^{3/2}} \end{aligned} \right. \\
&\widehat{x:y:z\partial V} = -\frac{x:y:z}{\overline{x^2 + y^2 + z^2}^{3/2}}
\end{aligned}$$