$$\Delta\vec{\mathbf{r}}_1 = 20.00\text{m}\,\hat{\mathbf{j}}, \qquad \Delta\vec{\mathbf{r}}_2 = (2.000\times10^4\text{m})\,(\cos30^\circ\,\hat{\mathbf{i}} + \sin30^\circ\hat{\mathbf{j}})$$