EMT Homework week 11.

1. Show that

$$
\nabla^{\prime}\left(\frac{1}{r_{s}}\right)=\frac{\hat{r}_{s}}{r_{s}^{2}}
$$

Where the gradient is toward $\mathbf{r}^{\prime}$
2. Work problem 4.2.
3. Work Problem 4.7
4. Work problem 4.15

