Two trucks leave a warehouse at the same time. One travels due north at an average speed of 60 mph , and the other travels due south at an average speed of 55 mph . When will the trucks be 500 miles apart?

$$
\begin{aligned}
& \mathrm{d}=\mathrm{rxt} \\
& \text { rate }=(60+55) \mathrm{mph}=115 \mathrm{mph} \\
& d=500=115 t \\
& t=\frac{500}{115} \approx 4.348 \text { hours } \approx 4 \text { hours, } 21 \text { minutes }
\end{aligned}
$$

