Answer on Question \#46308, Physics, Astronomy - Astrophysics
if the distance to earth at the time was $9 \times 10^{7} \mathrm{~km}$ and radio waves travel with a speed of $3 \times 10^{8} \mathrm{~m} / \mathrm{s}$, how long did it take for the signal to reach listeners on Earth?
Solution
It took him

$$
t=\frac{s}{v}=\frac{9 \cdot 10^{10} \mathrm{~m}}{3 \cdot 10^{8} \mathrm{~m} / \mathrm{s}}=3 \cdot 10^{2} \mathrm{~s}=5 \mathrm{~min}
$$

