distance =
$$d/km$$

attenuation = $1.25 dB/3km$
amp = $3.25 dB$

10 = 6.324

$$\begin{array}{ll} ? P_1 & \leftarrow 21km \rightarrow P_2 & 2W \\ 8NR_{46} = 10 \log_{10} \left(\frac{P_2}{P_1}\right) & 1.25 db \ per 3km \\ \hline \frac{5NR_{46}}{-5} = 10 \log_{10} \left(\frac{P_2}{P_1}\right) & 1.25 \times 7 \\ \hline \frac{-5}{10} = \frac{10 \log_{10} \left(\frac{P_2}{P_1}\right)}{10} & 8.75 db \ per 21km \\ \hline \frac{3NR_{46}}{10} = 3.75 - 8.75 \\ \hline \frac{1}{10} = \frac{2W}{P_1} & 5NR_{46} = -5 \\ \hline \frac{1}{10} = \frac{2W}{P_1} & 5NR_{46} = -5 \end{array}$$