

$$\text{STUDENT} > \text{evalf}\left(\left(\frac{.5 \cdot 43800 \cdot 1.64 \cdot 10^{\left(\frac{6}{10}\right)} \cdot \left(\frac{1}{2}\right)}{4 \pi \frac{450}{1500.00}}\right), 15\right)$$

194.750428520824 centimeters, using a 6dBd gain antenna at 43.8 watts

$$\text{STUDENT} > \text{evalf}\left(\left(\frac{.5 \cdot 43800 \cdot 1.64 \cdot 10^{\left(\frac{3}{10}\right)} \cdot \left(\frac{1}{2}\right)}{4 \pi \frac{450}{1500.00}}\right), 15\right)$$

137.872744878321 centimeters, using a 3dBd gain antenna at 43.8 watts

STUDENT > 194.750428520824/2.54;

76.67339705 inches using, a 6 dBd gain antenna at 43.8 watts

STUDENT > 137.872744878321/2.54;

54.28060823 inches using, a 3 dBd gain antenna at 43.8 watts

STUDENT >