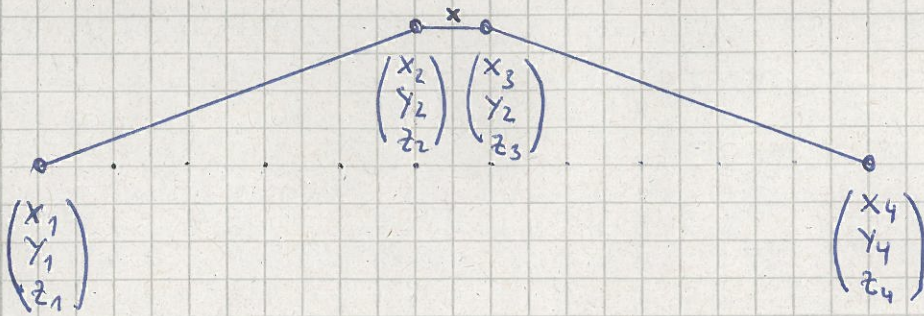


Inverted V:



Simulation      Antenna Height 20m,  $l = 20m$

$$\text{wire } \textcircled{I} = \begin{pmatrix} 0 \\ 0 \\ 20 \end{pmatrix} + \frac{20}{22.47} \begin{pmatrix} -20.08 \\ 6.14 \\ -8 \end{pmatrix} = \begin{pmatrix} -17.87 \\ 5.47 \\ 12.88 \end{pmatrix} = \begin{pmatrix} x_1 \\ y_1 \\ z_1 \end{pmatrix}$$

$$\text{wire } \textcircled{II} = \begin{pmatrix} 0 \\ 0 \\ 20 \end{pmatrix} + \frac{20}{26.24} \begin{pmatrix} 18.28 \\ -17.05 \\ -8 \end{pmatrix} = \begin{pmatrix} 13.93 \\ -13.00 \\ 13.90 \end{pmatrix} = \begin{pmatrix} x_4 \\ y_4 \\ z_4 \end{pmatrix}$$

$$\begin{pmatrix} x_2 \\ y_2 \\ z_2 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 20 \end{pmatrix} + \frac{0.5}{22.47} \begin{pmatrix} -20.08 \\ 6.14 \\ -8 \end{pmatrix} = \begin{pmatrix} -0.45 \\ 0.14 \\ 19.82 \end{pmatrix}$$

$$\begin{pmatrix} x_3 \\ y_3 \\ z_3 \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ 20 \end{pmatrix} + \frac{0.5}{26.24} \begin{pmatrix} 18.28 \\ -17.05 \\ -8 \end{pmatrix} = \begin{pmatrix} 0.35 \\ -0.32 \\ 19.85 \end{pmatrix}$$