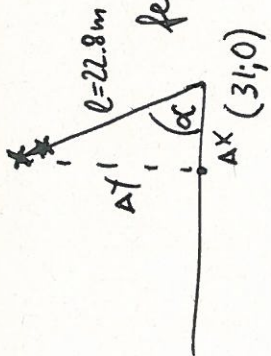


feed:

$$\alpha = 81^\circ$$

feed = 60 cm vor Ende



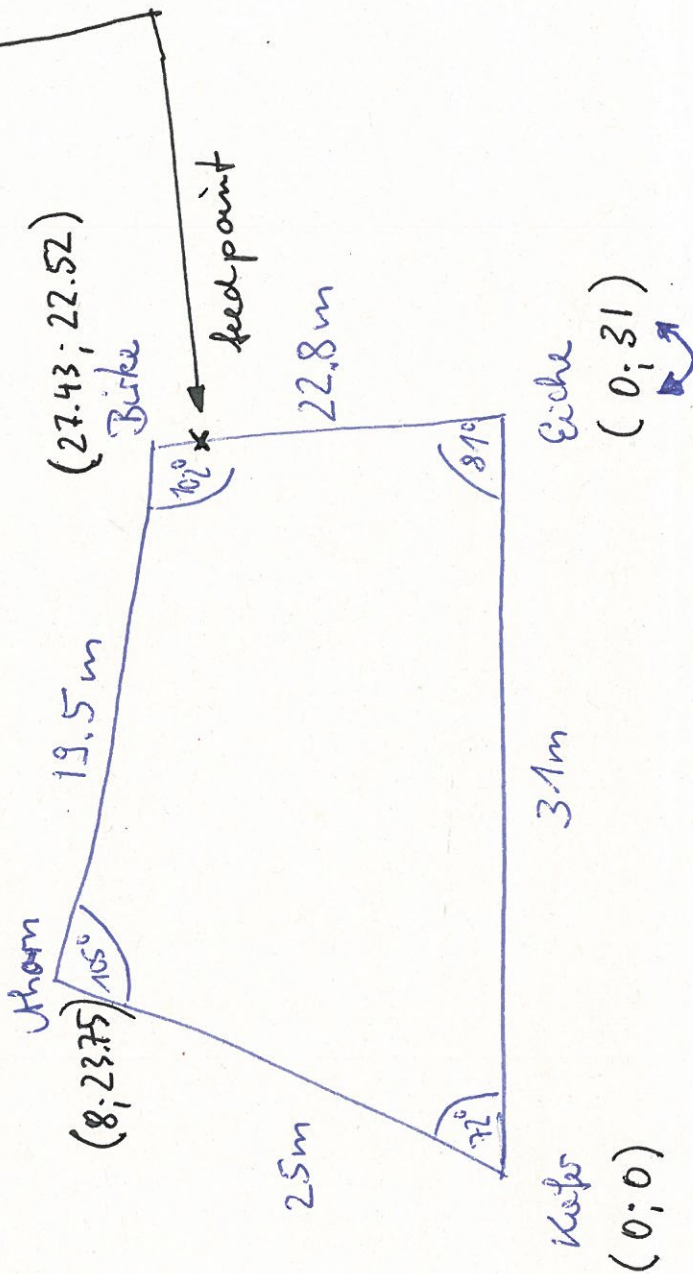
$$\sin \alpha = \frac{\Delta Y}{l} \rightarrow \Delta Y = 22.8 \times \sin 81^\circ = \underline{\underline{22.32}} \quad \underline{\underline{21.73}}$$

$$3.44$$

$$\cos \alpha = \frac{\Delta X}{l} \quad \Delta X = 22.8 \times \cos 81^\circ = \underline{\underline{3.54}}$$

feed point  $(\underline{\underline{27.55}}, \underline{\underline{21.73}})$

Skizze:



Kiefer: (0; 0)

Eiche (31; 0)

Birke:

$$y = mx + n$$

$$m = \tan \alpha = -6.31$$

$$0 = m \cdot 31 + n \rightsquigarrow n = 31 \cdot 6.31 = \underline{195.61}$$

$$l = 22.70 = \sqrt{(x-31)^2 + y^2}$$

$$\begin{aligned}
0 &= \cancel{x^2} - 62x + 31^2 + (-6.31x + 195.61)^2 - 22.70^2 \\
&= \underline{x^2} - 62x + 31^2 + \underline{6.31^2 x^2} - 2 \cdot 6.31 \cdot 195.61 + 195.61^2 - 22.70^2 \\
&= \underline{40.816 x^2 - 2530.598 x + 38708.982}
\end{aligned}$$

$$L_0 \quad x = \underline{27.43}$$

$$\begin{aligned}
y &= -6.31 \times 27.43 + \cancel{195.61} \\
&= \underline{22.52}
\end{aligned}$$

RC3

SCK

RC4

SDI

RC5

SD0

Kiefer (0; 0)

Thorn (8; 23.75)

Birke (27.43; 22.52)

Eiche (31; 0)

Real Deep

8.22

2.8

0

7.67

7.22

15

5.97

5.53

30

3.

2.53

45

Soop

6.0 dB

5.6

4.3

2.02

Dipole

5.5

4.83

2.99

-0.28

h=12m

6.6

6.19

4.96

2.8