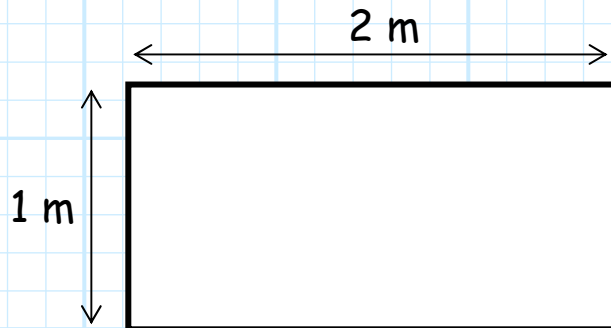


Special Problem III.F-2

A horn antenna has an aperture size of:



For $f = 3 \text{ GHz}$, find:

- the effective aperture A_{em}
- the gain G_0
- the beamwidths β_θ and β_ϕ .
- the size of the main beam in steradians.