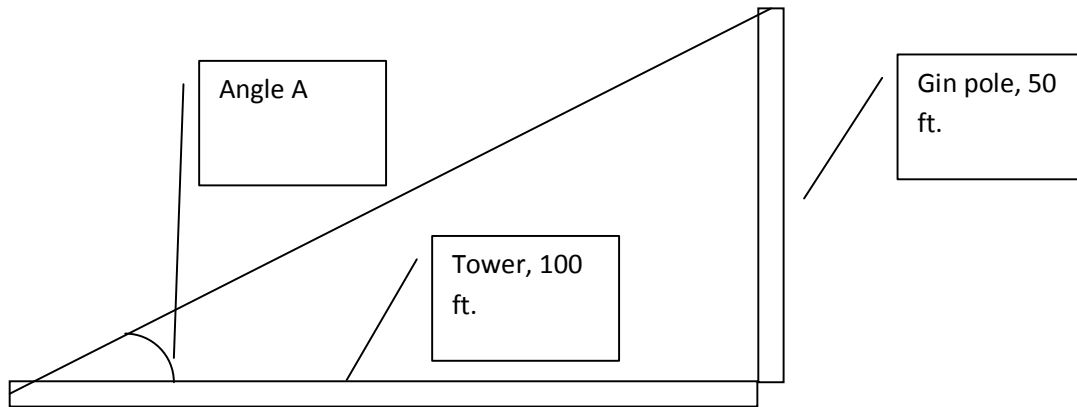


First a drawing of the tower before it is erected



$$\text{Angle A} = \text{Arctan}(50/100) = 26.57 \text{ degrees}$$