



Introduction to Trigonometry with Applications

APPLICATION EXAMPLE – ERROR IN DELIVERY OF RADIATION FOR CANCER
TREATMENT

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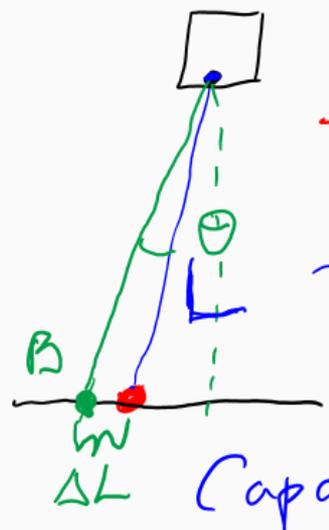
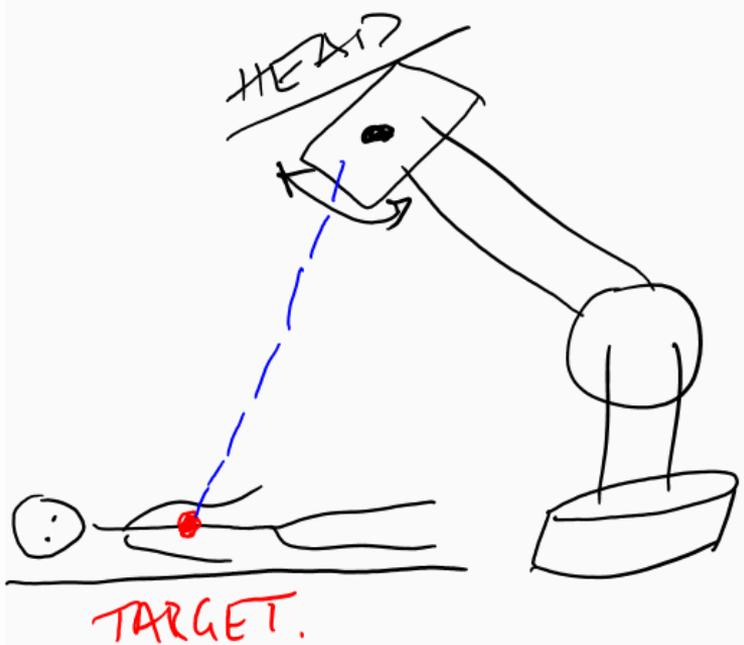
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Application Example

Localized Delivery of Radiation for Cancer Treatment



$$\sin(\theta) = \frac{\Delta L}{L}$$

$\Delta L = L * \sin(\theta)$
error in positioning of angle θ .

$$\frac{\Delta L}{L} = \sin(\theta) \Rightarrow \theta_{max}$$

Capability

$$\theta < \theta_{max}$$