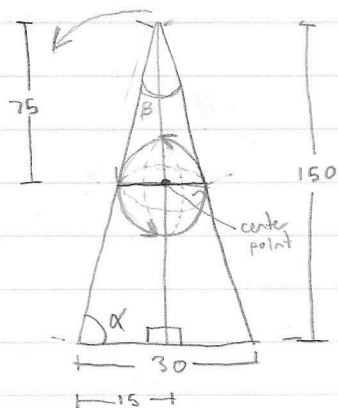


2.



~~$$\tan \alpha = \frac{150}{15}$$

$$\alpha = \tan^{-1}(10)$$

$$= 84.3^\circ \approx 84^\circ$$~~

~~$$\cos \alpha = \frac{15}{x}$$

$$x = \frac{15}{\cos 84}$$

$$\approx 150.7 \text{ cm}$$~~

by similar triangles: $\frac{30}{150} = \frac{x}{75}$

$$x = \frac{75(30)}{150}$$

$$\approx 15 \text{ cm}$$

sphere w radius 7.5 cm located at (0,0,0) = beam isocenter

- sources of error

- patient moving

- c-arm very heavy, wobbles

- can't reconstruct concave shapes or holes in tumours