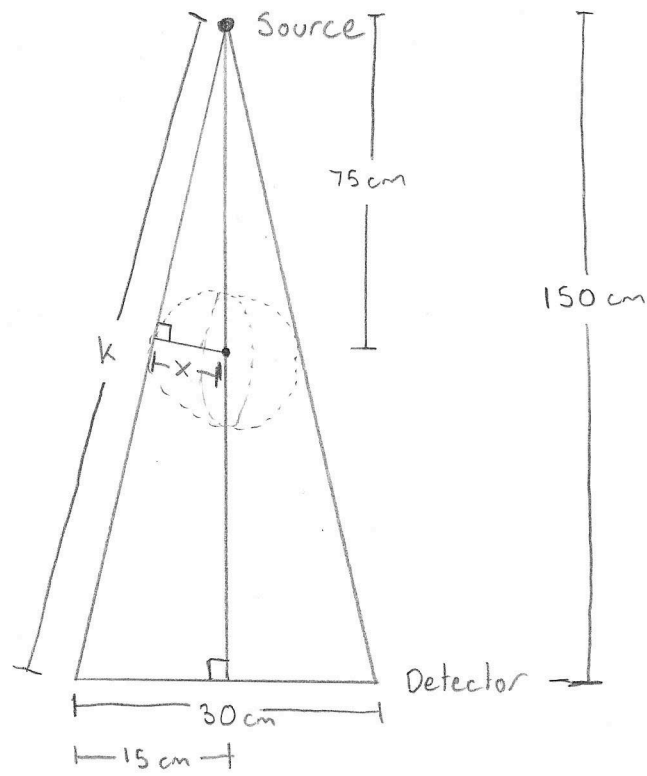


2.



$$k = \sqrt{(15)^2 + (150)^2}$$

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

$$\frac{x}{75} = \frac{15}{k}$$

$$x = \frac{15(75)}{150.7}$$

$$\approx 7.5 \text{ cm}$$

The workspace about the C-arm center is a sphere with radius = 7.5 cm, centered at the beam iso-center