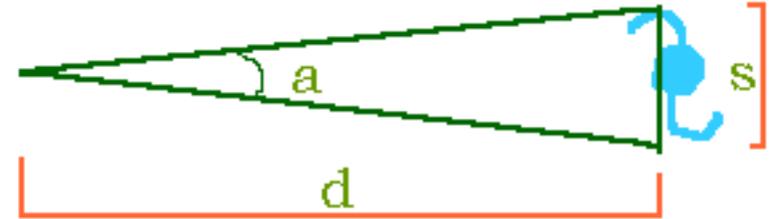


Relevant formulae:

$$\text{redshift} = \left(\frac{\lambda_{\text{measured}} - \lambda_{\text{true}}}{\lambda_{\text{true}}} \right) = \frac{v}{c} = z.$$

Small angle formula approximation: $a = s/d$ or $d = s/a$
 distance = actual size of the object \div angular size in radians
 (watch units – distance will come out in the same units as the actual size)



Finding the steepest slope (rise over run) and shallowest slope (rise over run) allowed by your data in order to determine the uncertainty in your value of the Hubble constant:

$$\frac{(H_{\text{steepest}} - H) + (H - H_{\text{shallowest}})}{2} = \text{uncertainty in } H$$

