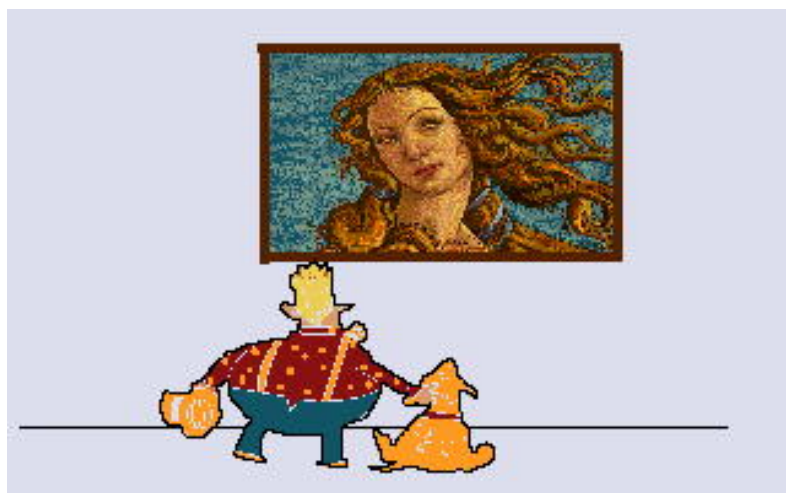
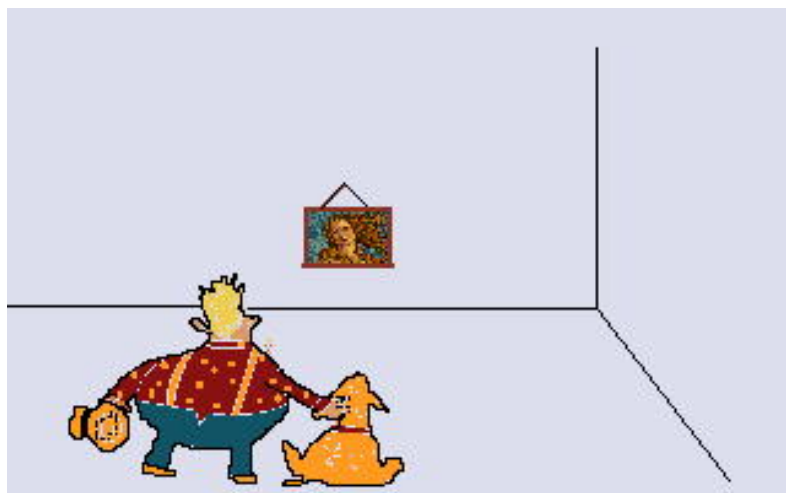


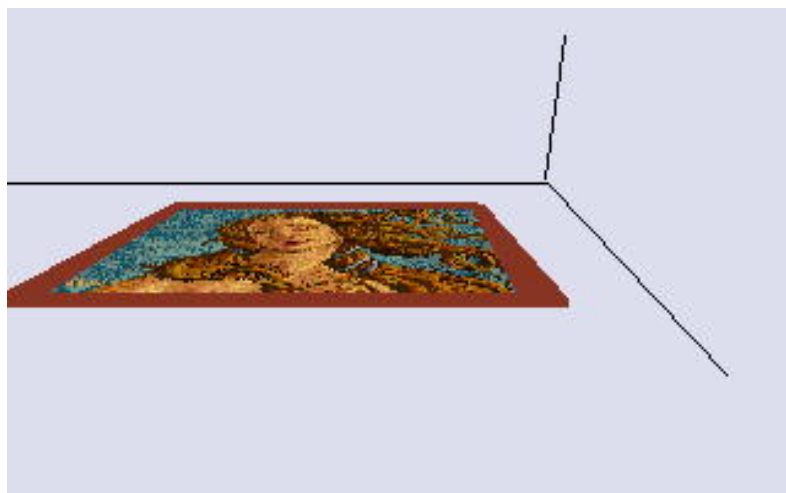
Where should an observer stand for the best view?



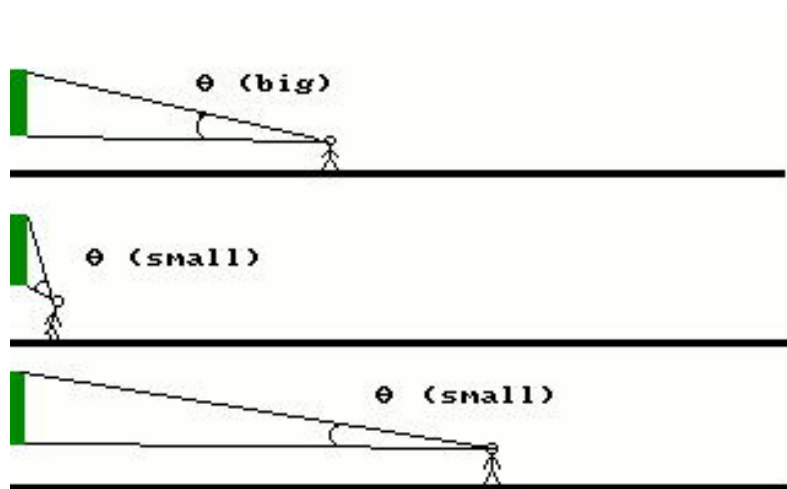
Too far away isn't very good



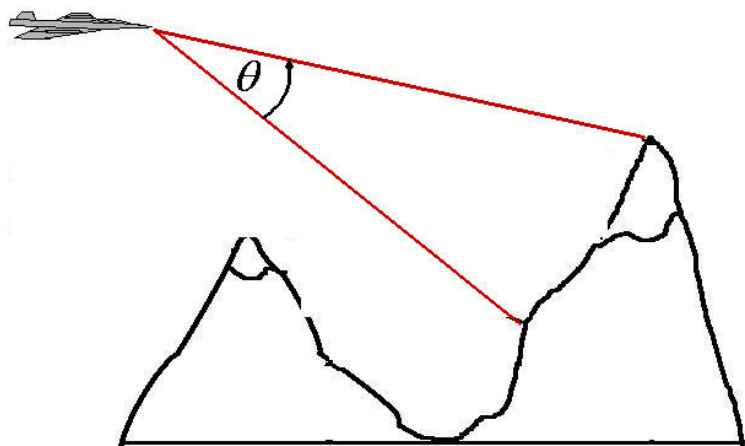
Too close isn't good either



What distance maximizes the angle?

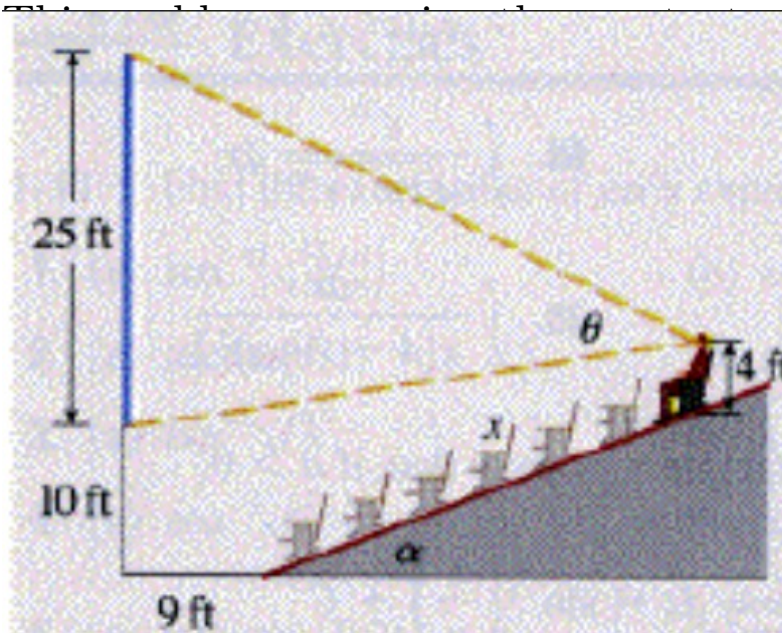


This problem comes in other contexts

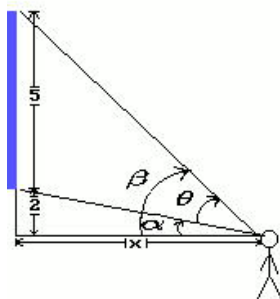


This problem comes in other contexts





The angle to be maximized can be related to angles in a right triangle.



$$\theta = \beta - \alpha$$

where  $\cot \alpha = \frac{x}{2}$  and  $\cot \beta = \frac{x}{7}$

$$\theta = \operatorname{arccot} \frac{x}{7} - \operatorname{arccot} \frac{x}{2}$$