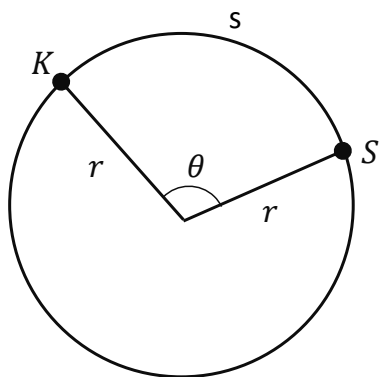


1.



$$r = 3840 \cancel{\text{ m}} \left(\frac{1.609 \cancel{\text{ km}}}{1 \cancel{\text{ m}}} \right) \left(\frac{1000 \text{ m}}{1 \cancel{\text{ km}}} \right) = 6.18$$

$$s = 5150 \cancel{\text{ m}} \left(\frac{1.609 \cancel{\text{ km}}}{1 \cancel{\text{ m}}} \right) \left(\frac{1000 \text{ m}}{1 \cancel{\text{ km}}} \right) = 8.29$$

$$\theta = ?$$

$$s = r\theta$$

$$\frac{s}{r} = \theta$$

$$\frac{8.29}{6.18} = \theta$$

$$1.34 \text{ rad} = \theta$$