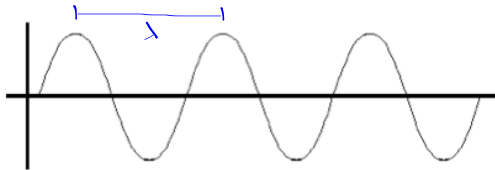


Geometric Optics

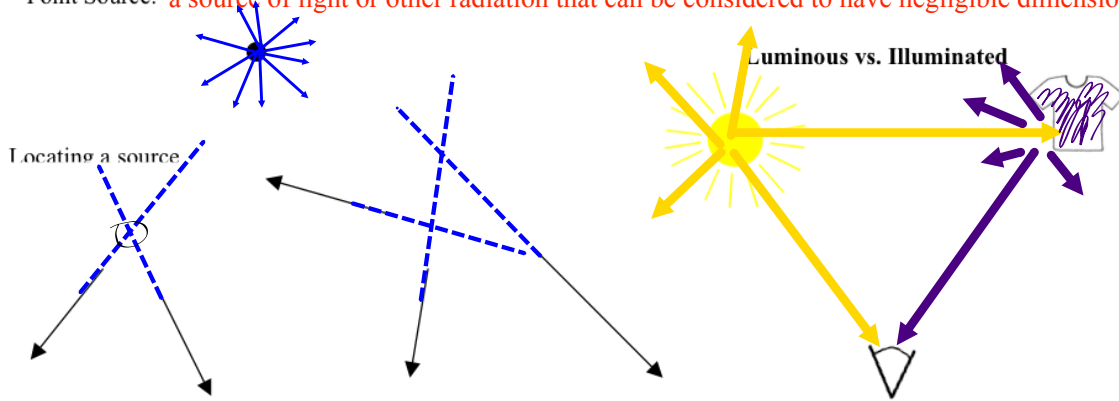
Wave-like properties of light

Wavelength: λ [m]
 Frequency: $f = \nu$ [Hz] = [s⁻¹]
 Speed: $c = \lambda \cdot f$ $c = 3.00 \times 10^8$ m/s

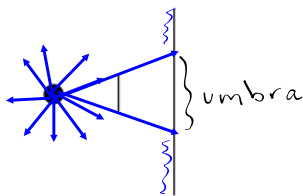


Ray Model

Point Source: a source of light or other radiation that can be considered to have negligible dimensions



Shadows (Umbra and Penumbra)



The sketch represents an eclipse of the sun. Sketch carefully the shadow cast by the moon on the earth, indicating umbra and penumbra

