# Test

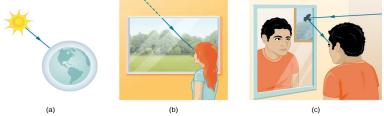
Lenses



1/6

# Ray Model of Light

3 ways light can travel from a source to another location



- a directly from source through vaccum . Sun to Earth
- b light can travel through various media like Air, glass, water to the observer
- c light can also arrive after being reflected such as mirrors

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### Ray of Light

We model path of light as a straight line called ray

- Light behaves both as a particle and a wave
- When light interacts with an object several times larger than its wavelength( $\approx 10^{-6}$ ), it travels in a straight line and acts like a ray.
- Light may change direction when it
  - reflection : encounters objects (such as a mirror)
  - refraction: passing from one material to another (such as in passing from air to glass)

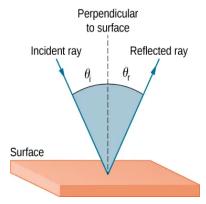
Nithin August 23, 2023 3 / 6

### Law of Reflection

#### Law of Reflection

the law states that agle of reflection is equal to angle of incidence

$$\theta_r = \theta_i$$







6/6

Specular Reflection



6/6

- Specular Reflection
- Oiffused Reflection



6/6