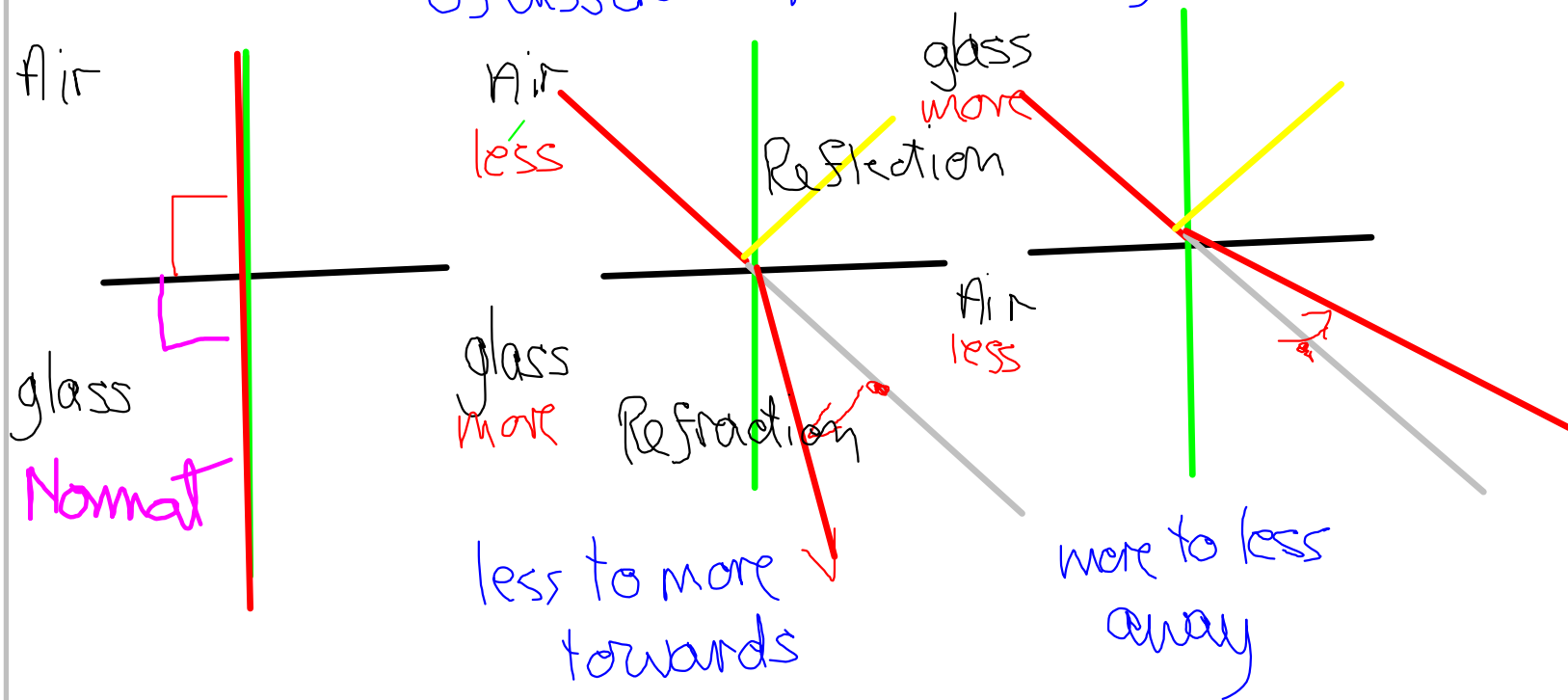
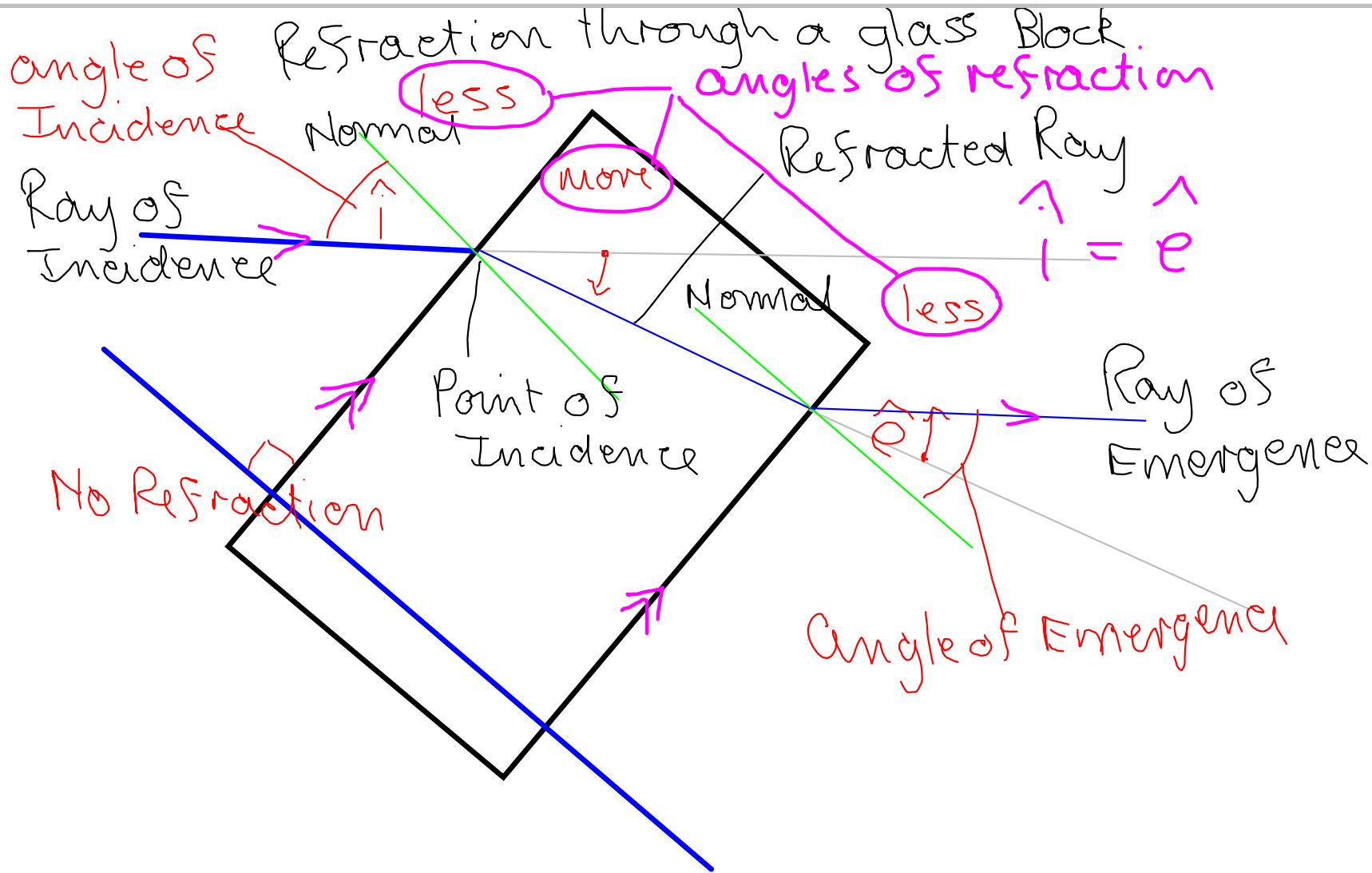


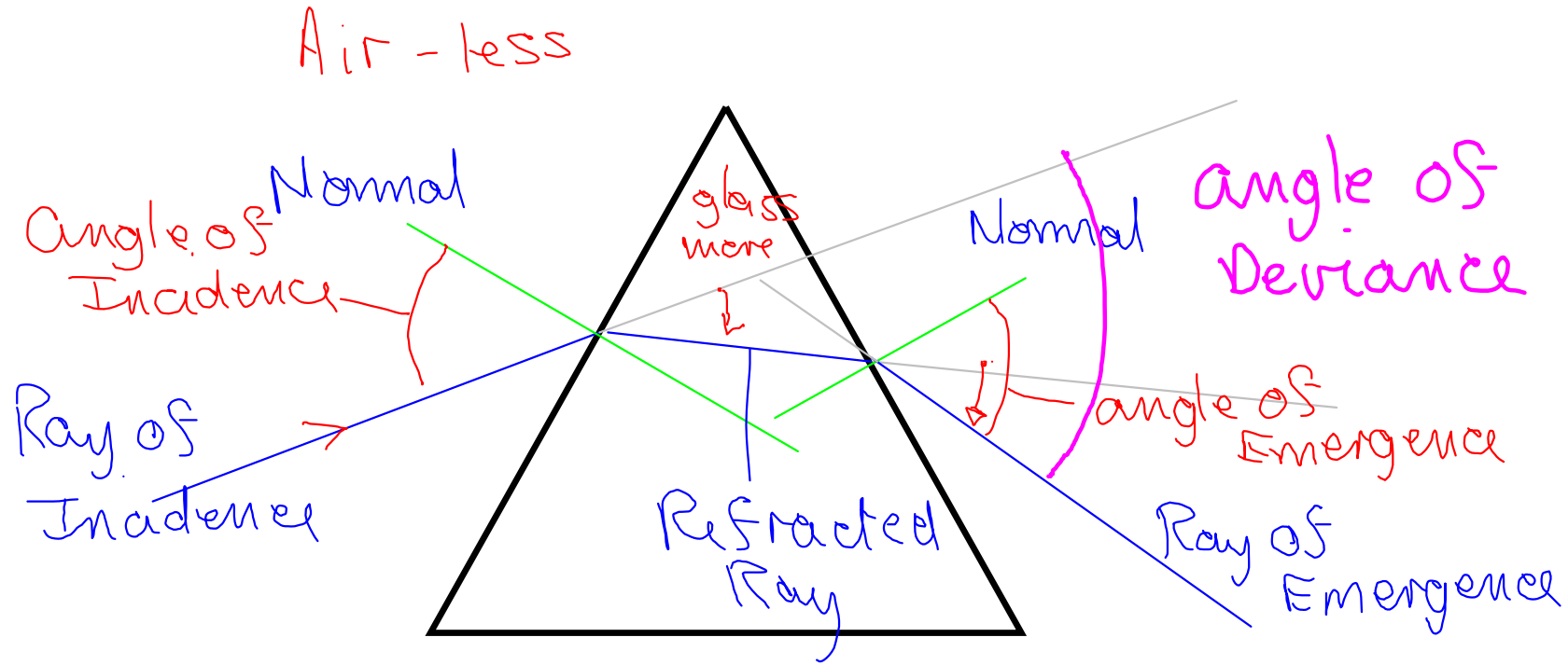
# Refraction of Light

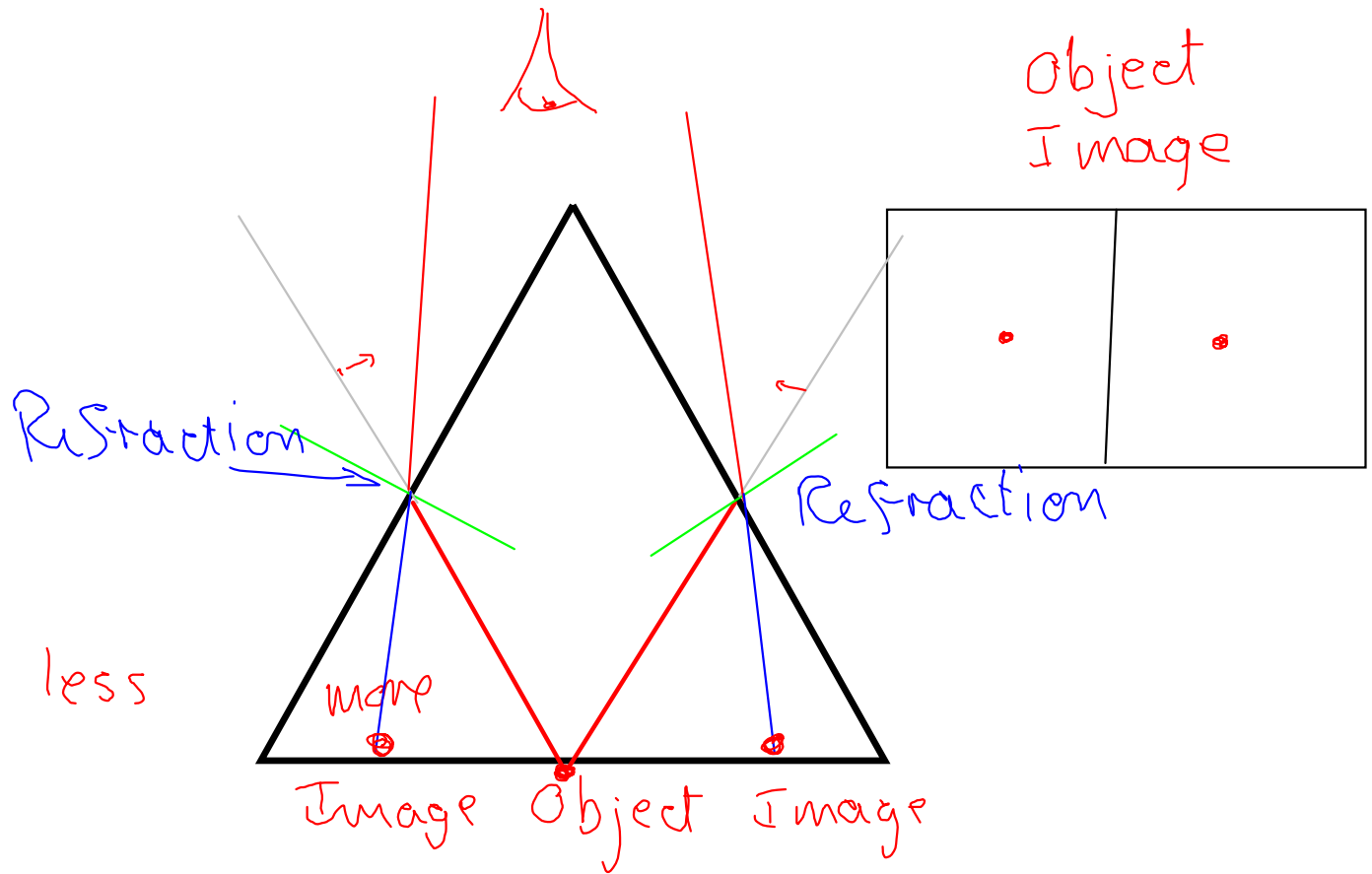
Definition: It is the changing in speed and direction of light as it changes from one transparent medium to another of different optical density.



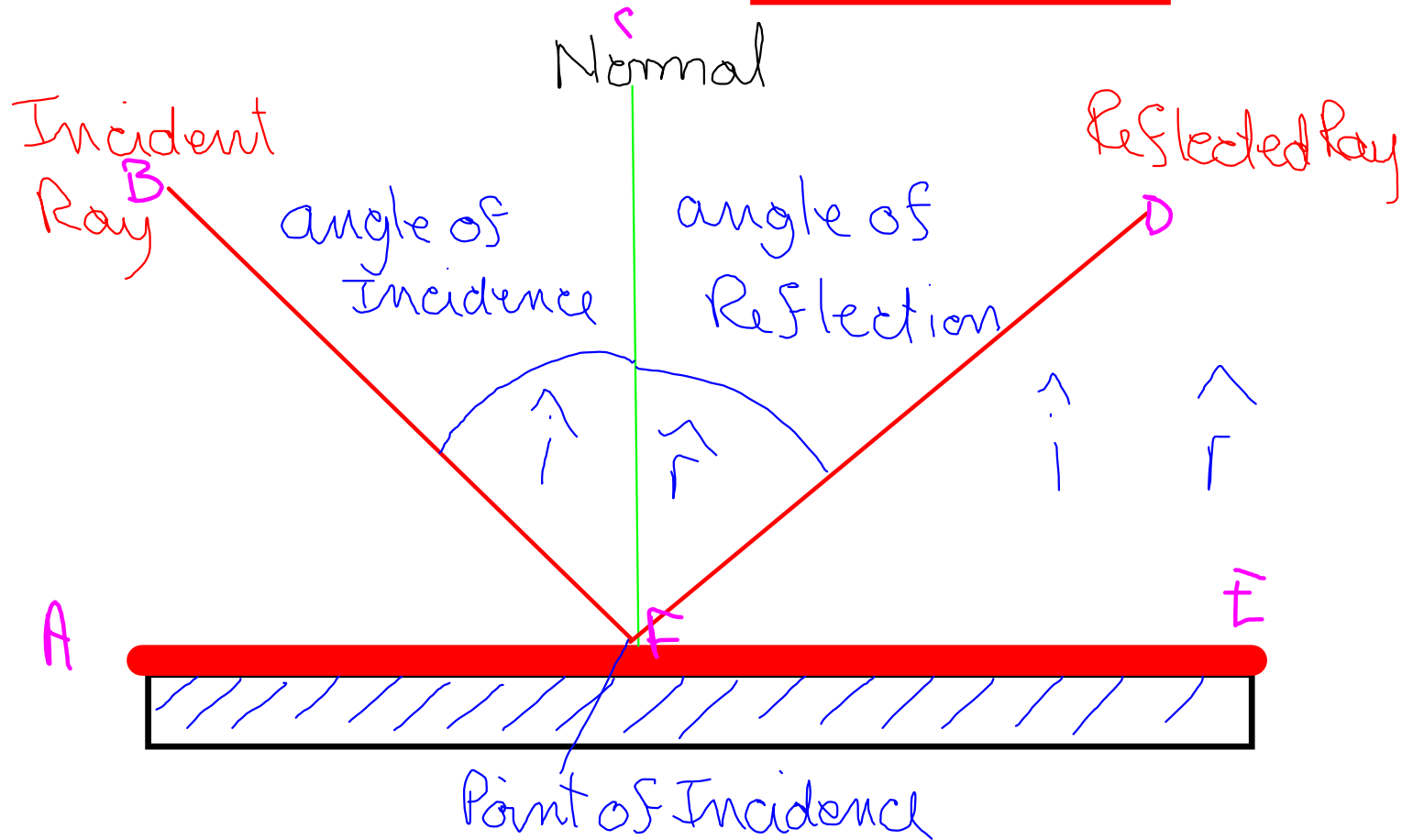
Rectilinear Propagation of light states that  
light travels in a straight line

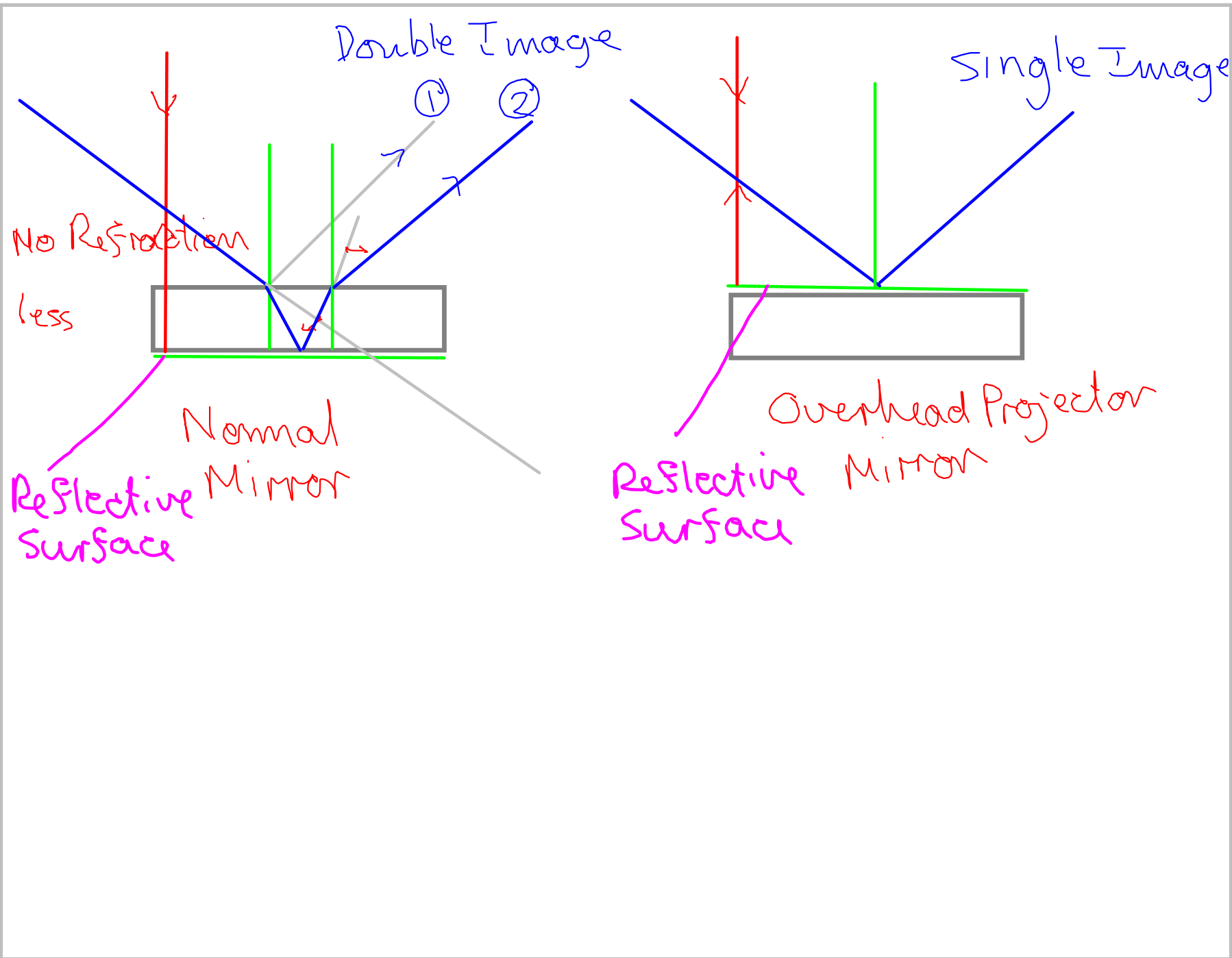






# Reflection





# Total Internal Reflection

①

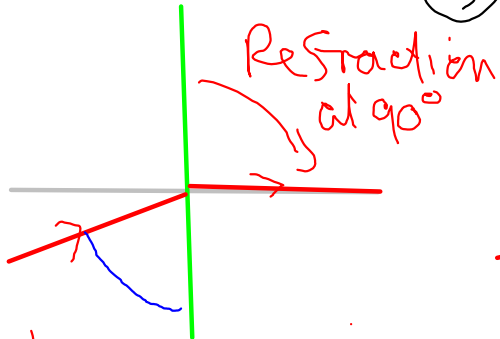
Air  
less



No  
Refraction

glass  
more

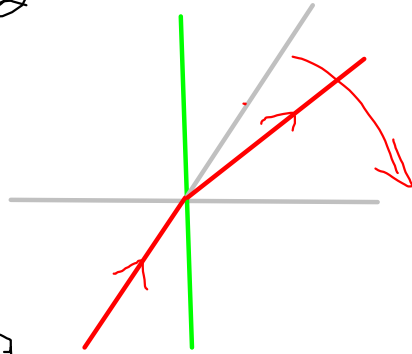
④



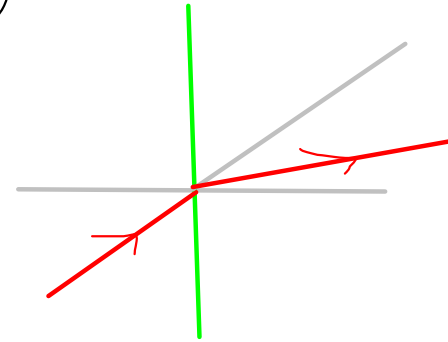
Refraction  
at  $90^\circ$

Angle of Incidence  
produces an angle  
of refraction =  $90^\circ$   
= critical angle

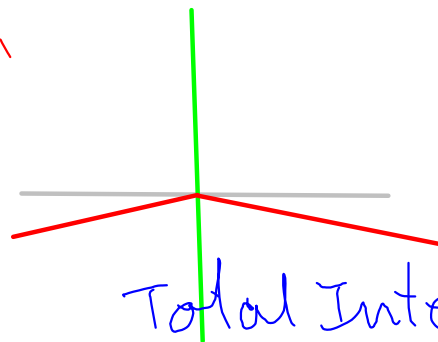
②



③



⑤



Total Internal  
Reflection

water =  $49^\circ$   
glass =  $42^\circ$   
diamond =  $25^\circ$

# Real and Apparent Depth

