

HW

① What are the 2 conditions required for TIR?

- $n_2$  should be  $>$  than  $n_1$
- Ray should travel denser medium  $\rightarrow$  rarer medium

② Actual depth = RI  $\times$  apparent depth  
 $= 1.6 \times 5 = 8 \text{ m}$

③ Apparent depth =  $\frac{\text{Real depth}}{\text{RI}}$   
 $= \frac{8}{1.6} = 5 \text{ cm}$

Normal shift = Real depth - Apparent depth  
 $= 8 - 5 = 3 \text{ cm}$