H.W
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Date
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1- 2 Important condition for Total internal reflection are —

⇒ light must move from high density to low density.

⇒ Aangle of incidence should be greater than critical angle.

2⇒ $\mu_{wa} = \frac{\text{Real depth}}{\text{App. depth}}$

⇒ Real depth = App dep . μ_{wa} = App.depth . $\frac{1}{\mu_{aw}}$

⇒ RD = $\frac{6cm}{3/4}$ = $\frac{6 \times 4}{3}$ = 8cm

~~3⇒ As angle of incidence is 0° so no lateral disp and no vertical disp~~

3) Normal shift = Real depth - Appa.depth

⇒ $\frac{\text{App depth}}{\mu_{ag}}$ - App.depth

= $8\left(\frac{1.6-1}{1.6}\right)$ = 3cm