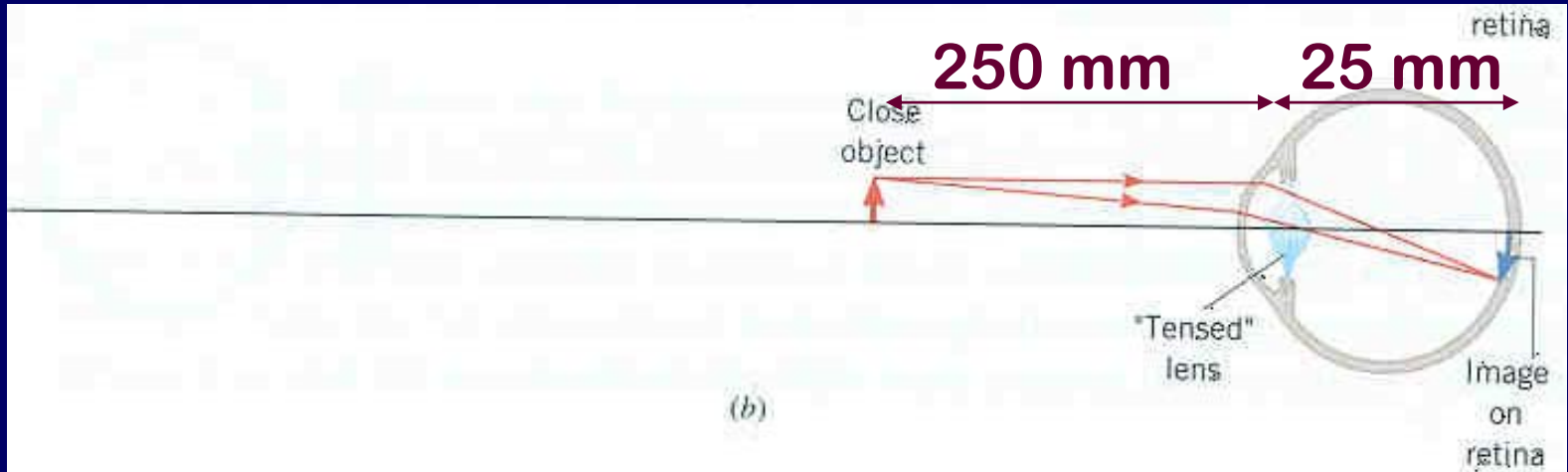
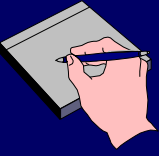


# Example

# Eye (Tensed)



Determine the focal length of your eye when looking at an object up close (25 cm).

Object is up close:

$$d_o = 25\text{cm} = 250\text{mm}$$

Want image at retina:  $d_i = 25\text{mm}$

$$\frac{1}{250\text{ mm}} + \frac{1}{25\text{ mm}} = \frac{1}{f}$$

$$f_{tense} = 22.7\text{ mm}$$

$$f_{relaxed} = 25\text{ mm}$$