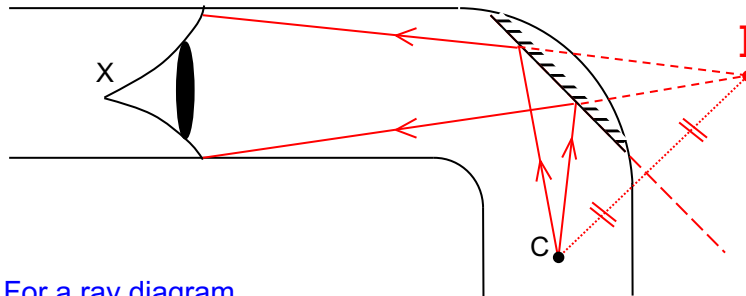




2026 Sec 3 Physics Assignment 2.1 **ANSWERS**

Optics - Reflection

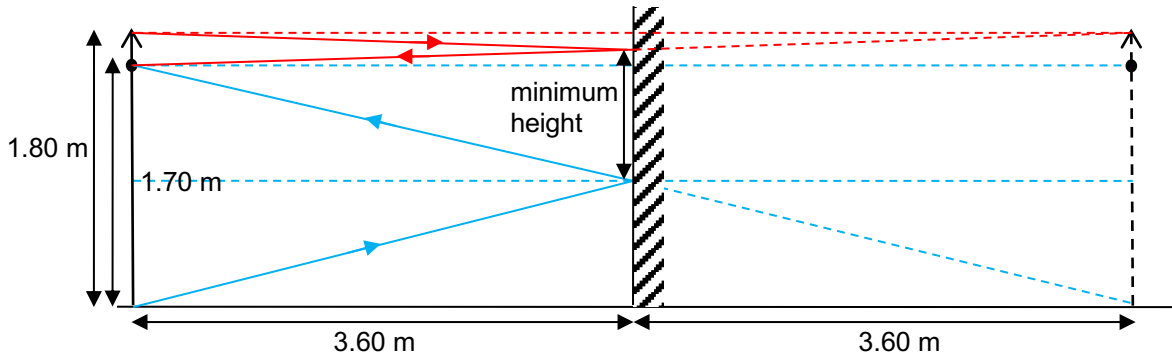
1



Note: For a ray diagram

1. Use pencil & ruler
 2. Show arrows on every light ray
 3. Draw accurate construction lines with dashed lines
 4. Use protractor/set square to ensure right angles!
-

3



- (b) distance = $2 \times 3.60 \text{ m} = 7.20 \text{ m}$
- (c) height = 1.80 m
- (d) minimum height of mirror = $\frac{1}{2} \times 1.80 \text{ m} = 0.90 \text{ m}$
- (e) height of mirror above the floor = $\frac{1}{2} \times 1.70 \text{ m} = 0.85 \text{ m}$

Note: Show all calculation steps with units!

Also refer simulation at <https://www.geogebra.org/m/pCTXpz7S>

4

