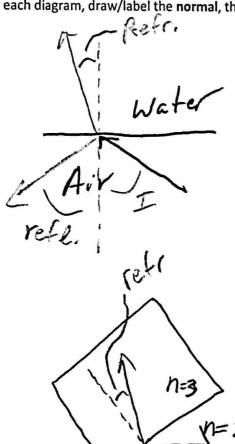
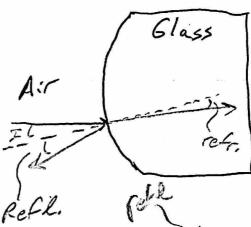
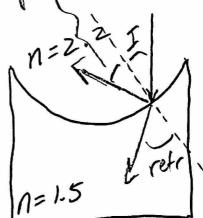
For each diagram, draw/label the normal, the angle of incidence, angle of refraction, and the angle of reflection.







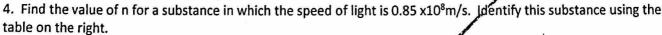
Given that the speed of light in a vacuum is is C = 3x108 m/s....

1. Find the speed of of light in a substance with n = 1.8.

2. Find the speed of of light in a substance with n = 2.3

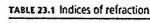
3. Find the value of n for a substance in which the speed of light is 1.38x108m/s

Identify this substance. $M = \frac{3 \times 10^8 \text{m/s}}{1.38 \text{m/s}} = \frac{3 \times 10^8 \text{m/s}}{1.38 \text{m/s}} = \frac{2.17}{1.38 \text{$









Medium	n
Vacuum	1.00 exact
Air (actual)	1.0003
Air (accepted)	1.00
Water	1.33
Ethyl alcohol	1.36
Oil	1.46
Glass (typical)	1.50
Polystyrene plastic	1.59
Cubic zirconia	2.18
Diamond	2.41
Silicon (infrared)	3.50