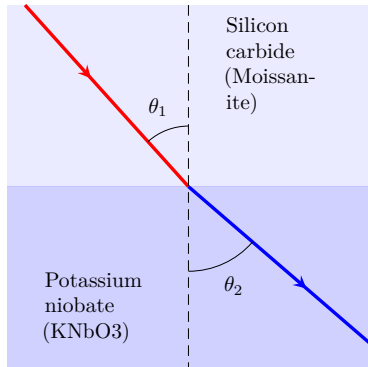


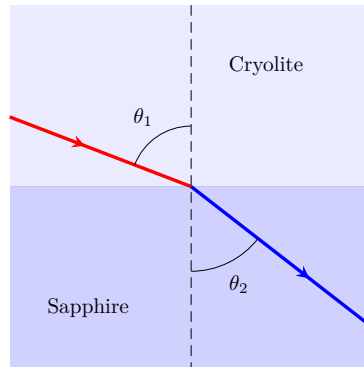
# Refraction

## Optical Density

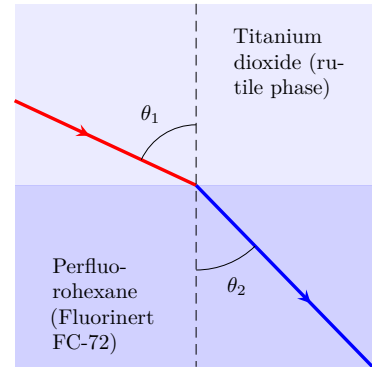
For each of the following ray diagrams identify the more optically dense material.



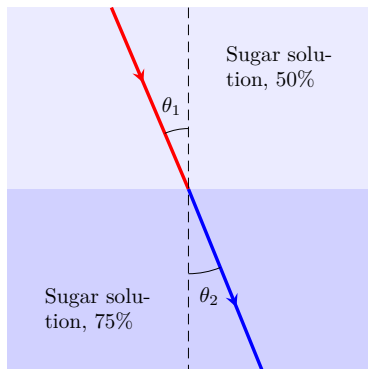
1 )



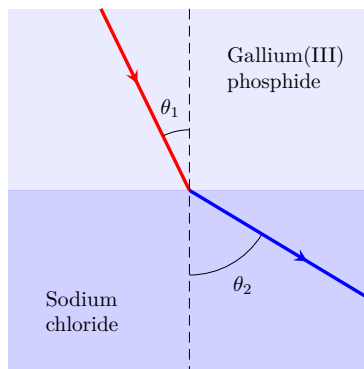
2 )



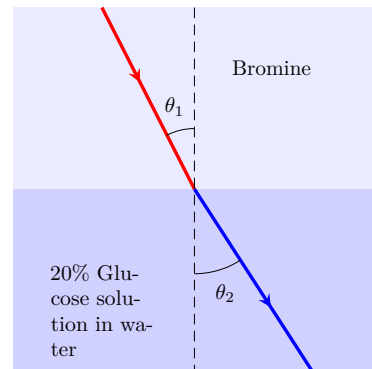
3 )



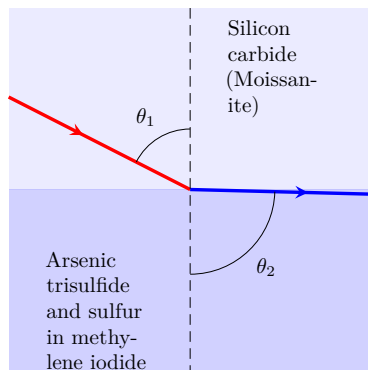
4 )



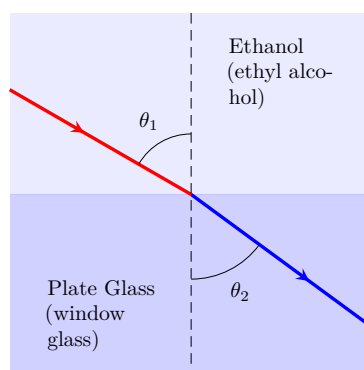
5 )



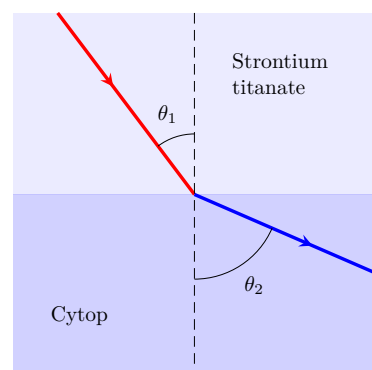
6 )



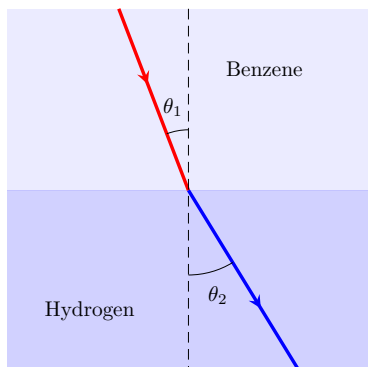
7 )



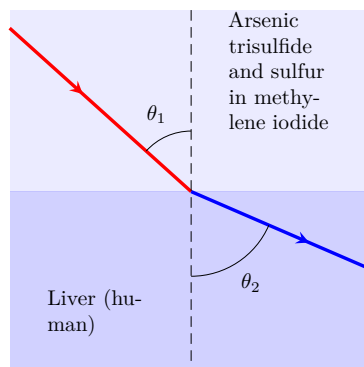
8 )



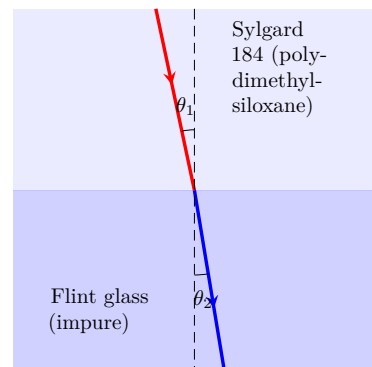
9 )



10 )



11 )



12 )

## Answers

- 1 ) Silicon carbide (Moissanite)
- 2 ) Sapphire
- 3 ) Titanium dioxide (rutile phase)
- 4 ) Sugar solution, 75%
- 5 ) Gallium(III) phosphide
- 6 ) Bromine
- 7 ) Silicon carbide (Moissanite)
- 8 ) Plate Glass (window glass)
- 9 ) Strontium titanate
- 10 ) Benzene
- 11 ) Arsenic trisulfide and sulfur in methylene iodide
- 12 ) Flint glass (impure)