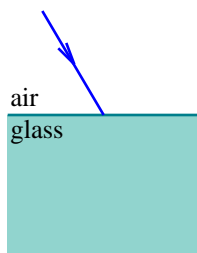


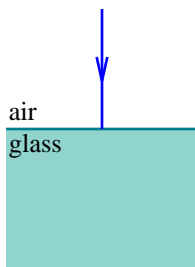
REFRACTION DRILL

The diagrams below show a ray of light incident upon an interface. In some cases the ray is traveling through air and entering the glass. In other cases it is traveling through glass and entering the air. On each diagram below, sketch the approximate path of the light in the second medium. Ignore any reflected light. It is not necessary to calculate any angles, but do clearly show the change in direction of the rays, if any, at each surface.

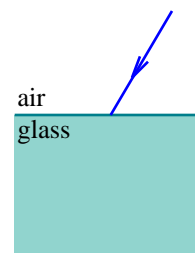
1.



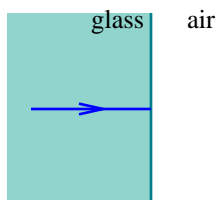
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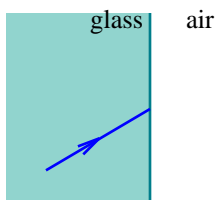
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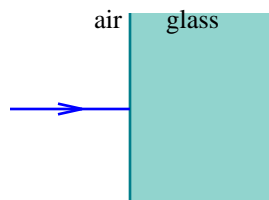
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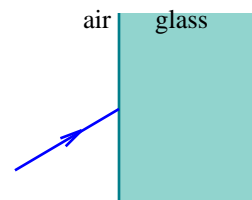
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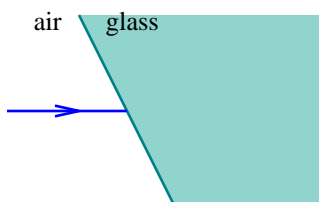
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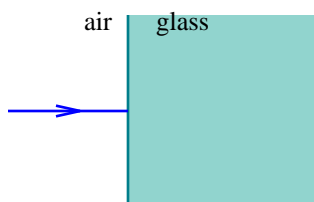
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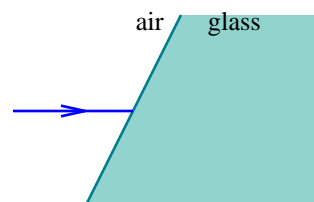
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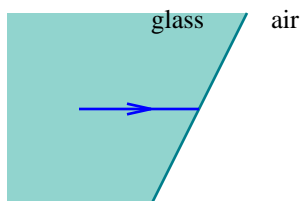
9.



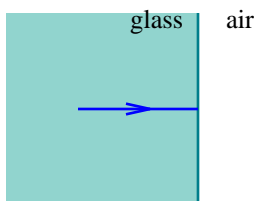
10.



11.



12.



13.

