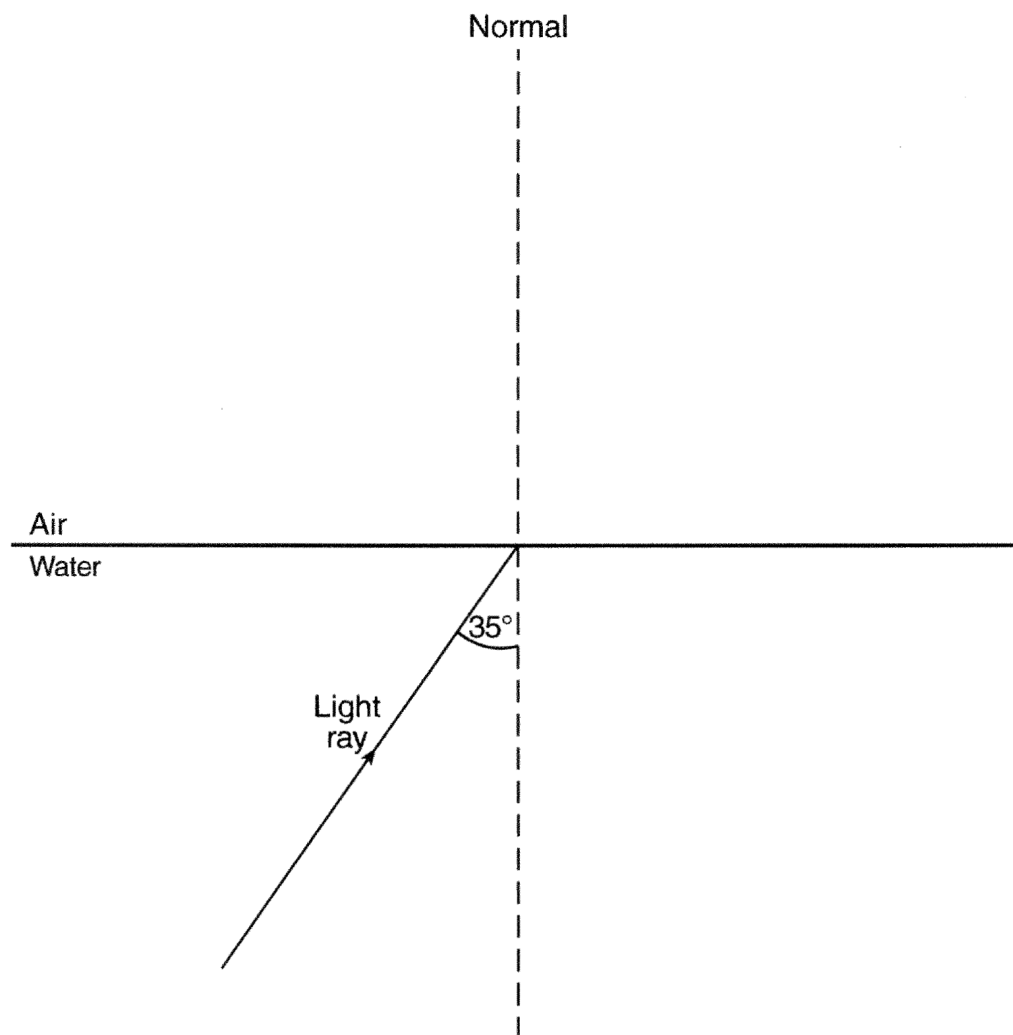

Base your answers to questions 1 through 4 on the information below.

A light ray with a frequency of 5.09×10^{14} hertz traveling in water has an angle of incidence of 35° on a water-air interface. At the interface, part of the ray is reflected from the interface and part of the ray is refracted as it enters the air.



1. Identify *one* characteristics of this light ray that is the same in *both* the water and the air.
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