Base your answers to questions 1 and 2 on the information below.

Two plane mirrors are positioned perpendicular to each other as shown. A ray of monochromatic red light is incident on mirror 1 at an angle of 55°. This ray is reflected from mirror 1 and then strikes mirror 2.



1. On the diagram below, use a protractor and a straightedge to draw the ray of light as it is reflected from mirror 2.



2. Determine the angle at which the ray is incident on mirror 2.

