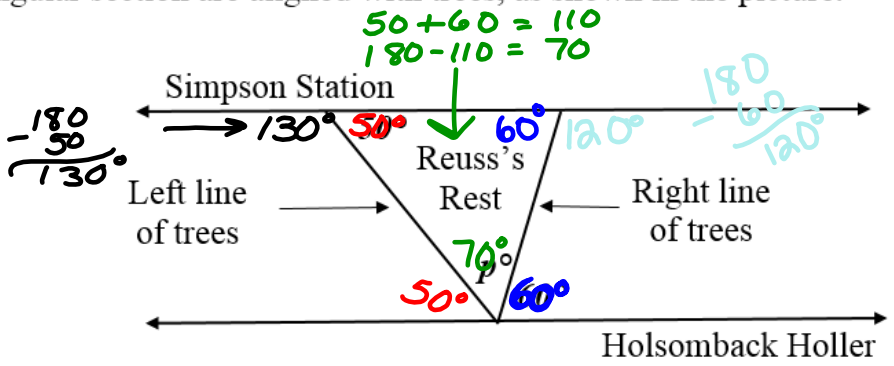
Opening Question:

Simpson Station is located in the middle of the neighborhood and it runs parallel to Holsomback Holler. There is a rectangular shaped park located between the two streets. The park has a triangular section called Reuss's Rest. The two sides of the triangular section are aligned with trees, as shown in the picture.



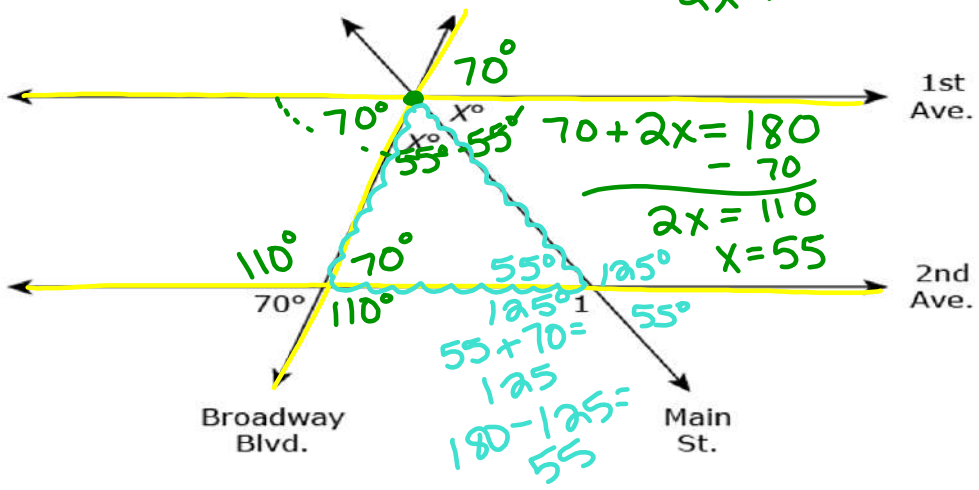
What is the ***p***, the measure of the angle formed by the intersection of the two lines of trees? Explain your answer and show your work.

∠

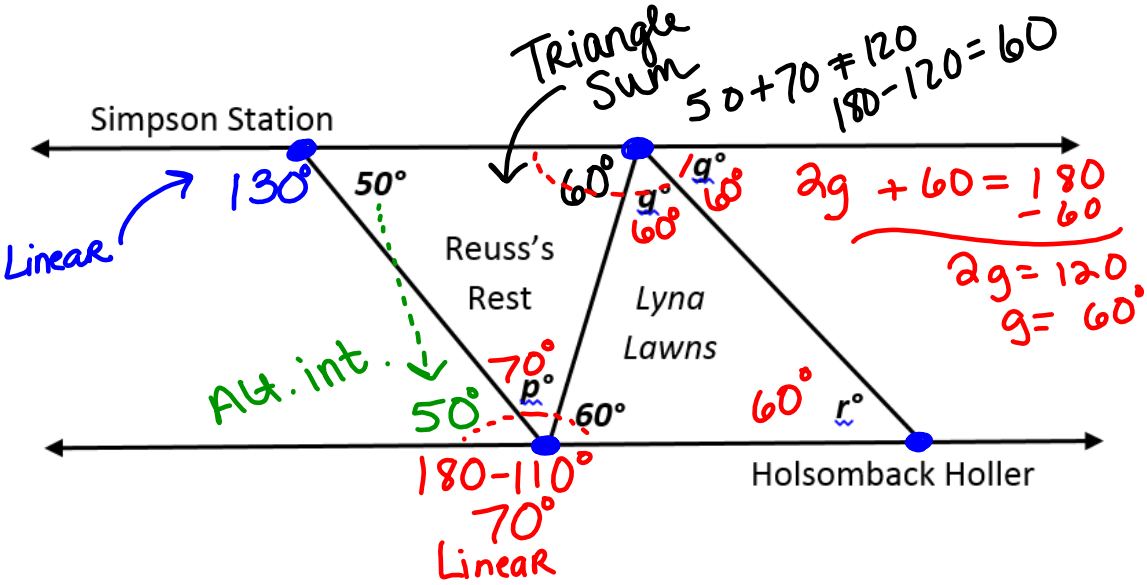
Sep 13-1:32 PM

Sep 13-1:46 PM

1) In the figure below, 1st Ave. and 2nd Ave. are parallel to each other. What is the measure of $\angle 1$? Explain how you know.

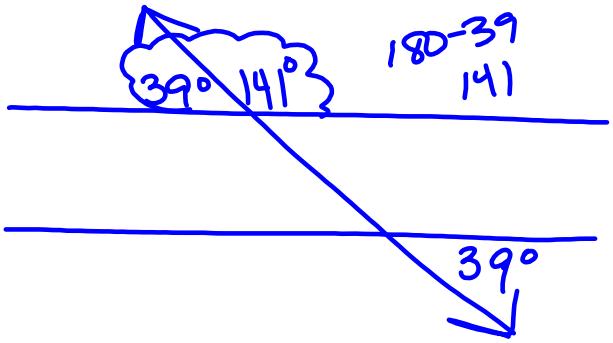


Sep 13-1:26 PM



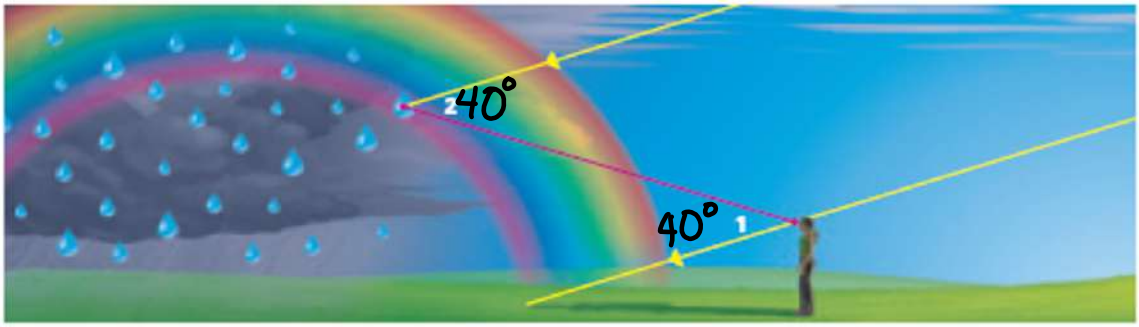
Sep 13-1:27 PM

3) A two-rut road runs due west and east. A roadrunner, heading in a roughly northwesterly direction, runs across the ruts in a straight path. The roadrunner's path and the eastern side of the first rut make an angle of 39°. What are the measures of the angles made by the roadrunner's path on the northern side of the second rut?

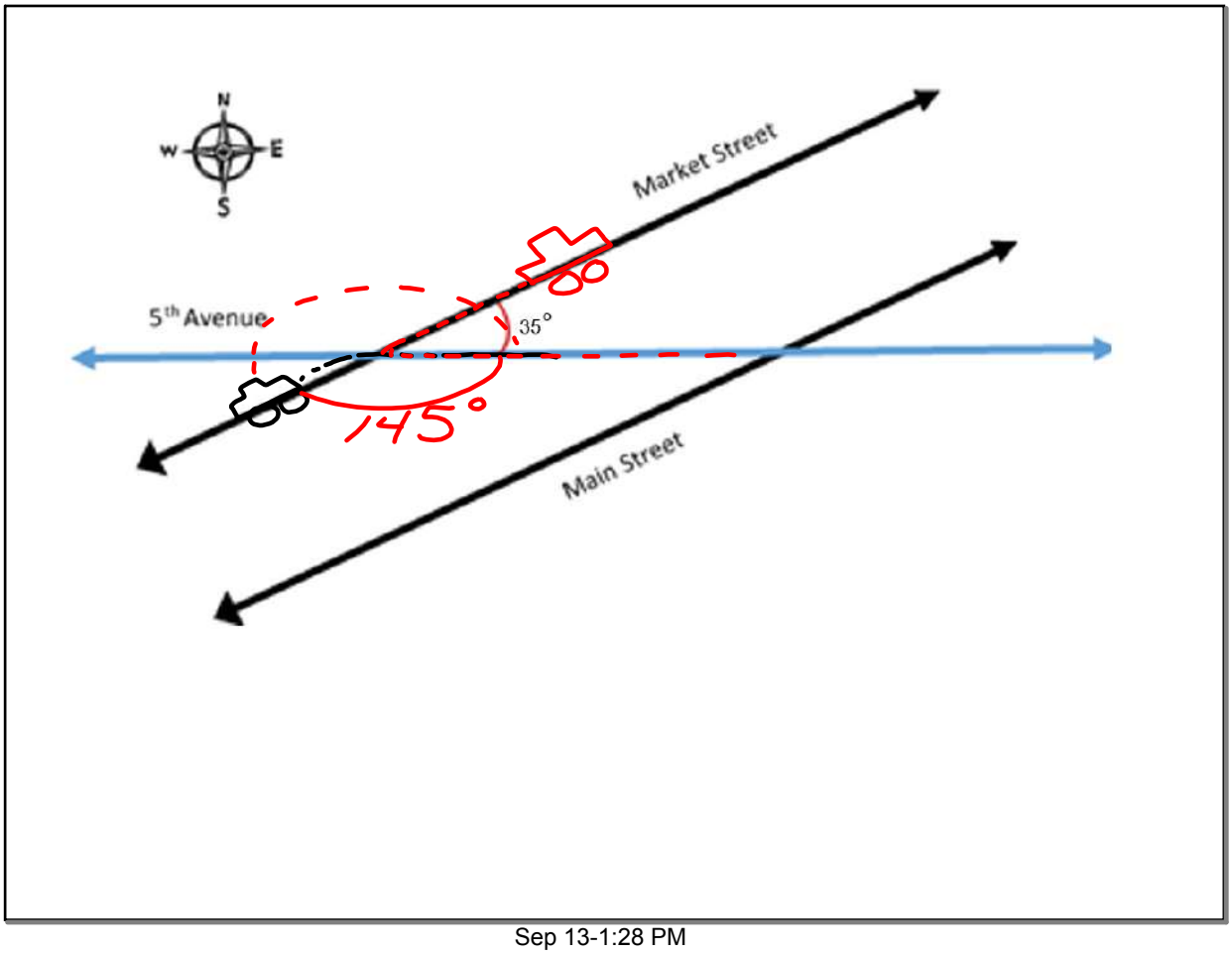


Sep 13-1:27 PM

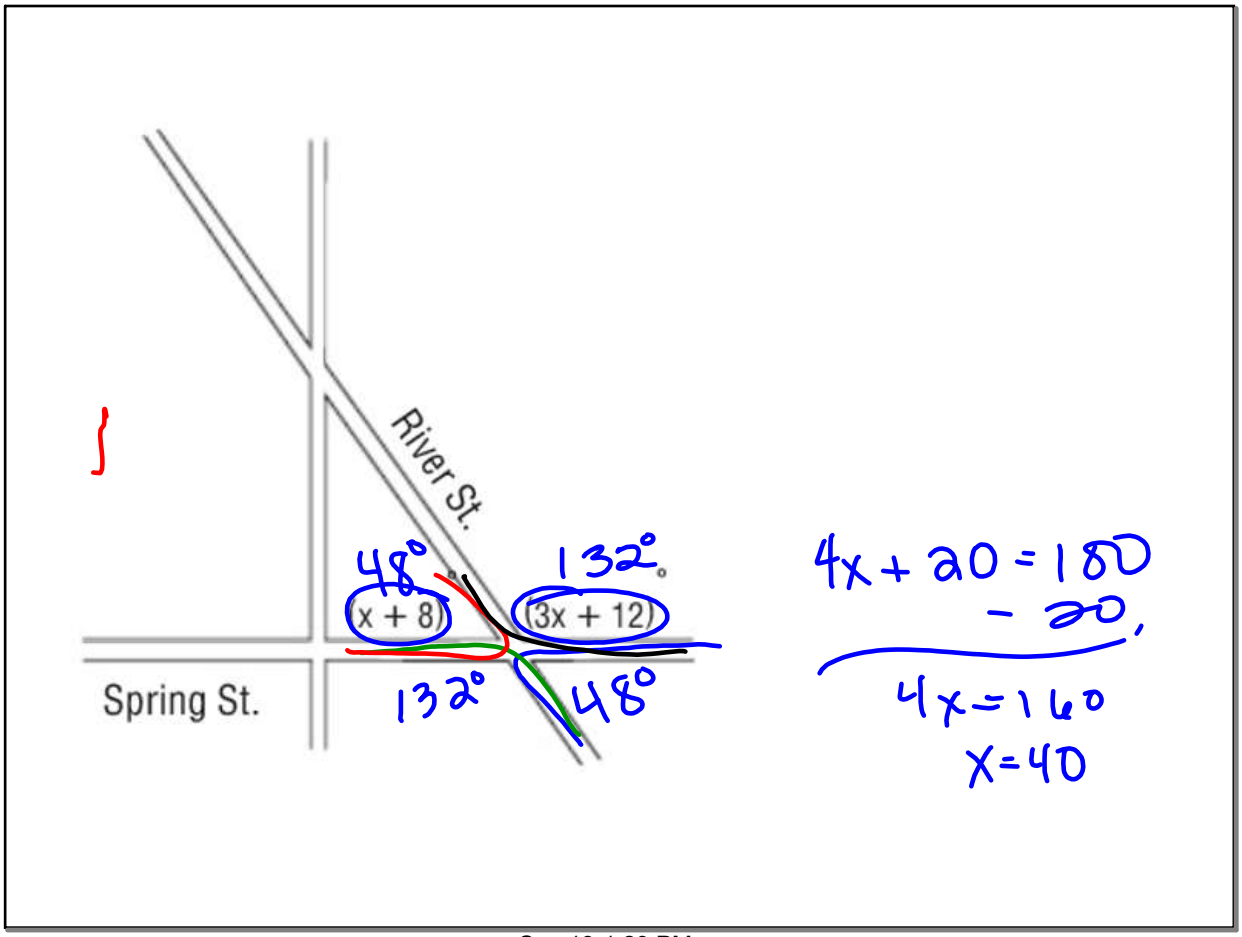
4) When sunlight enters a drop of rain, different colors of light leave the drop at different angles. This process is what makes a rainbow. For violet light, m<2 = 40°. What is m<1? How do you know?



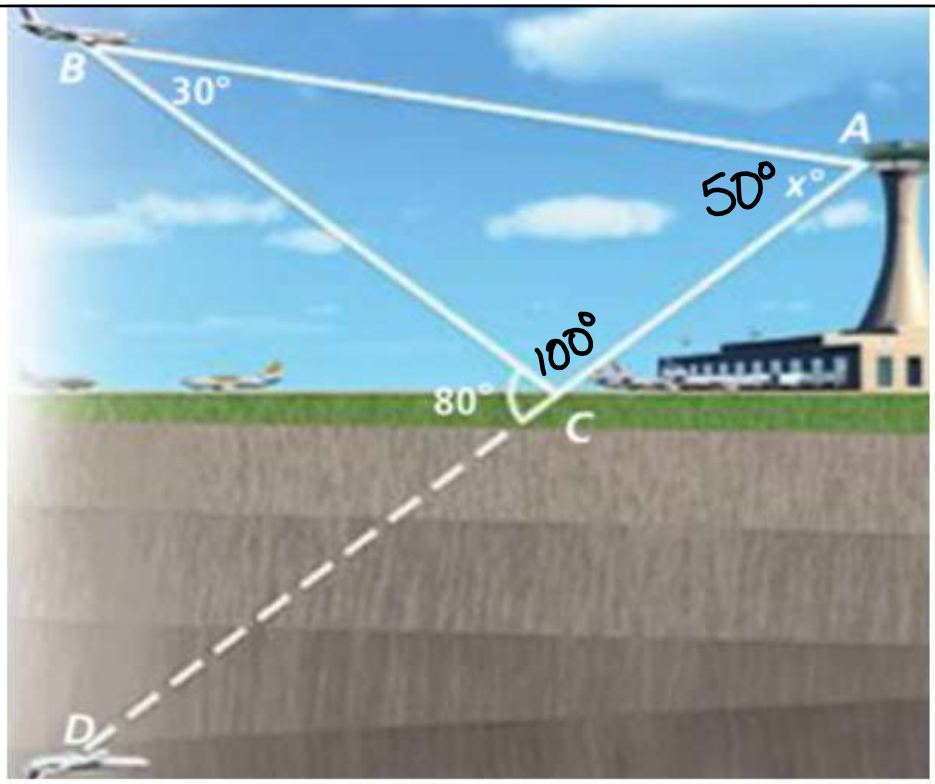
Sep 13-1:28 PM



Sep 13-1:28 PM



Sep 13-1:29 PM



Sep 13-1:29 PM

Sep 13-2:28 PM