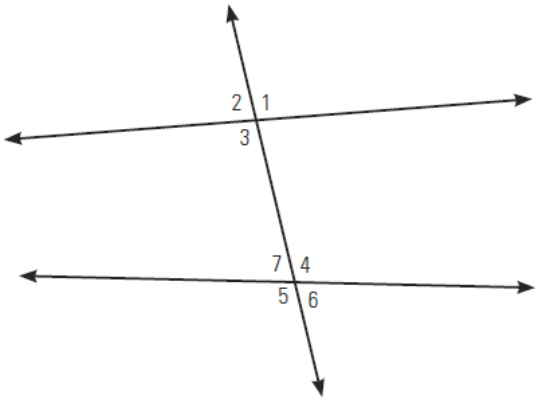
Mr. Gunstenson

WAM 10

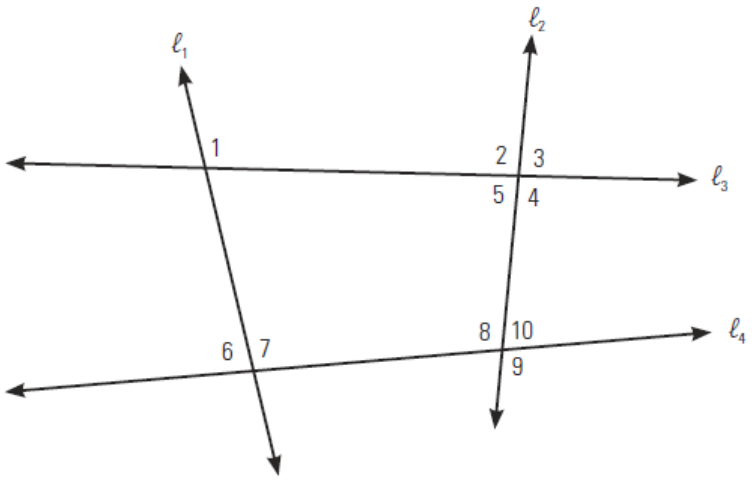
Unit 6 - WA10.9 - Angles and Parallel Lines Practice Questions #3

Be sure to input your answers here to receive credit: https://bit.ly/3orkaFA

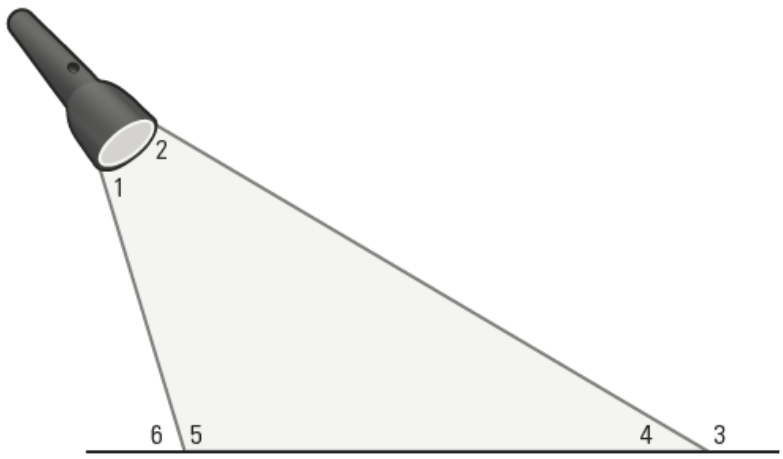
1. Given the diagram below, identify the following angles.
   a. alternate exterior angle to $\angle 2$
   b. interior angle to $\angle 7$
   c. alternate interior angle to $\angle 4$
   d. angle corresponding to $\angle 5$



2. Identify each of the following angles.
   a. angles corresponding to $\angle 1$
   b. interior angle on the same side of the transversal as $\angle 10$
   c. alternate interior angles to $\angle 5$
   d. interior angles to $\angle 8$



3. A flashlight shines down onto a floor as shown in the diagram below. If the outer rays are considered to be two lines and the floor is a transversal, which angle corresponds with 4?



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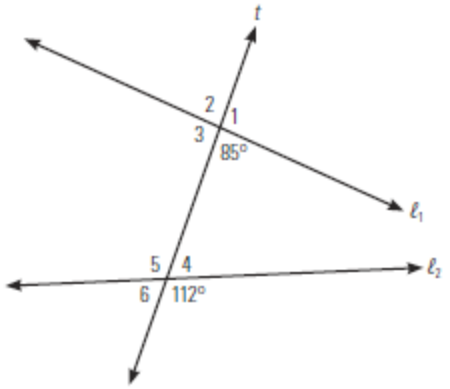
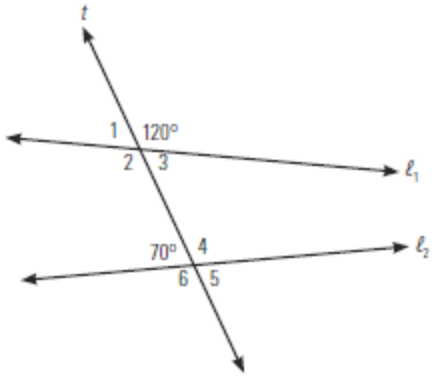
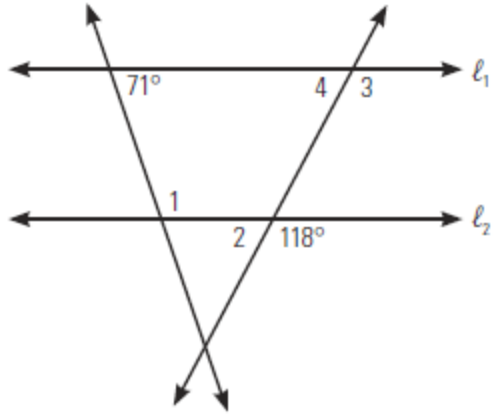
4. In the diagram below, calculate the sizes of each of the interior angles. What is their sum?



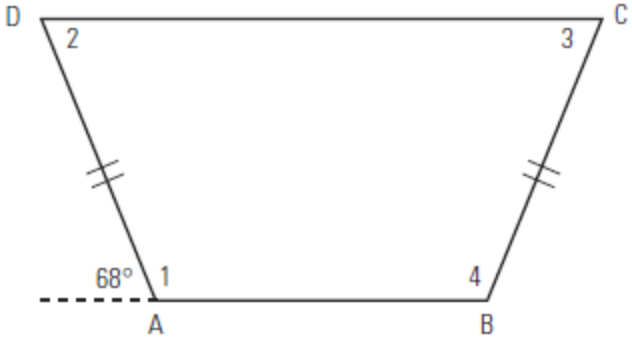
5. Calculate the sizes of the six angles indicated in the figure.



6. In the diagram below, ℓ_1 is parallel to ℓ_2. State the measures of the indicated angles.



7. What are the measures of the interior angles in the trapezoid shown below?



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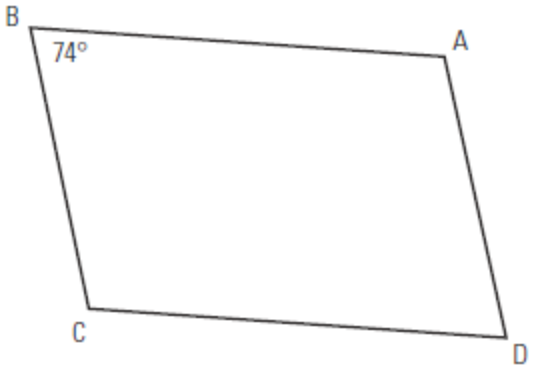
8. Quadrilateral ABCD is a parallelogram in which $\angle B$ measures 74°. Determine the measures of the other angles and state your reasons.



9. Find a pair of parallel lines in the following diagram. On the diagram, mark all the angles necessary to determine this.