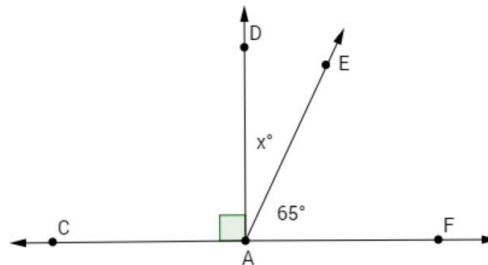


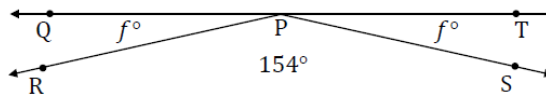
Problem Set

For each question, use angle relationships to write an equation in order to solve for each variable. Determine the indicated angles. You can check your answers by measuring each angle with a protractor.

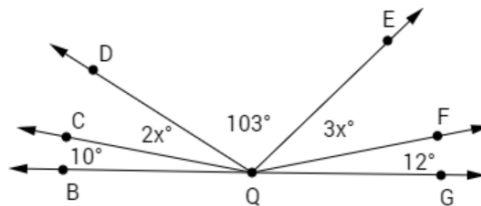
1. In a complete sentence, describe the relevant angle relationships in the following diagram. Find the measurement of $\angle DAE$.



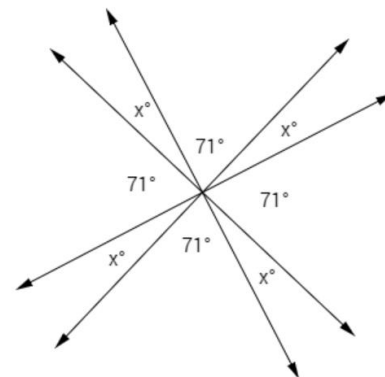
2. In a complete sentence, describe the relevant angle relationships in the following diagram. Find the measurement of $\angle QPR$.



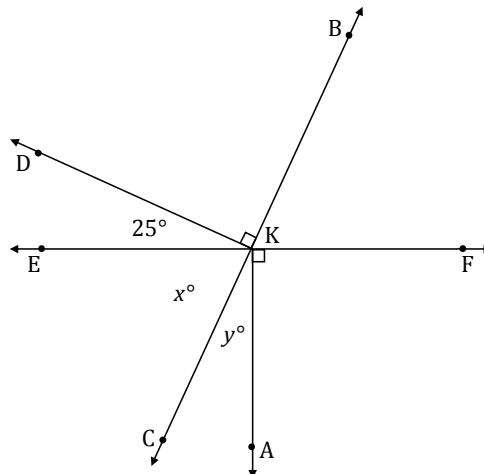
3. In a complete sentence, describe the relevant angle relationships in the following diagram. Find the measurements of $\angle CQD$ and $\angle EQF$.



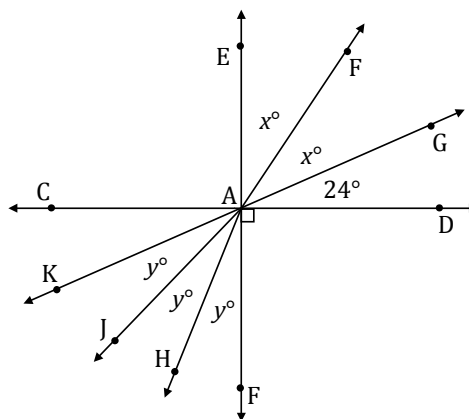
4. In a complete sentence, describe the relevant angle relationships in the following diagram. Find the measure of x .



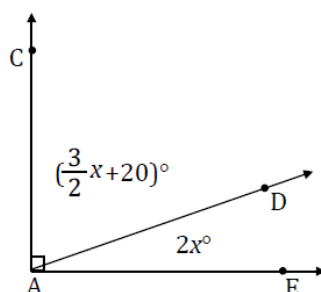
5. In a complete sentence, describe the relevant angle relationships in the following diagram. Find the measures of x and y .



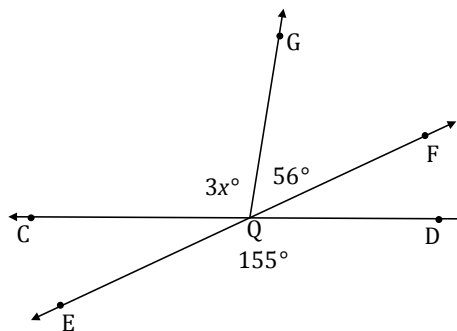
6. In a complete sentence, describe the relevant angle relationships in the following diagram. Find the measures of x and y .



7. In a complete sentence, describe the relevant angle relationships in the following diagram. Find the measures of $\angle CAD$ and $\angle DAE$.



8. In a complete sentence, describe the relevant angle relationships in the following diagram. Find the measure of $\angle CQG$.



9. The ratio of the measures of a pair of adjacent angles on a line is 4 : 5.
- Find the measures of the two angles.
 - Draw a diagram to scale of these adjacent angles. Indicate the measurements of each angle.
10. The ratio of the measures of three adjacent angles on a line is 3 : 4 : 5.
- Find the measures of the three angles.
 - Draw a diagram to scale of these adjacent angles. Indicate the measurements of each angle.