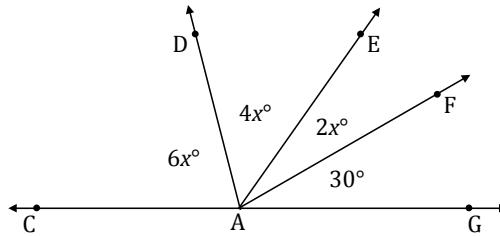


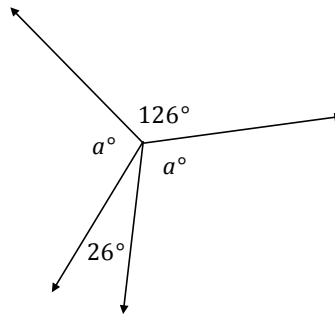
Problem Set

In a complete sentence, describe the angle relationships in each diagram. Write an equation for the angle relationship(s) shown in the figure, and solve for the indicated unknown angle. You can check your answers by measuring each angle with a protractor.

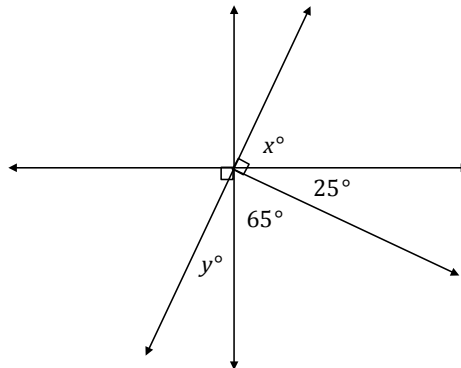
1. Find the measures of $\angle EAF$, $\angle DAE$, and $\angle CAD$.



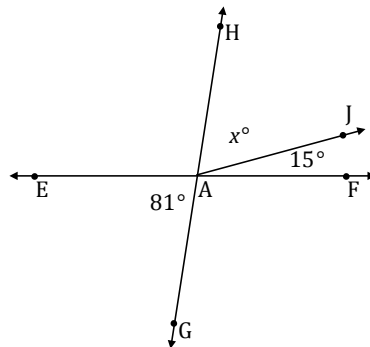
2. Find the measure of a .



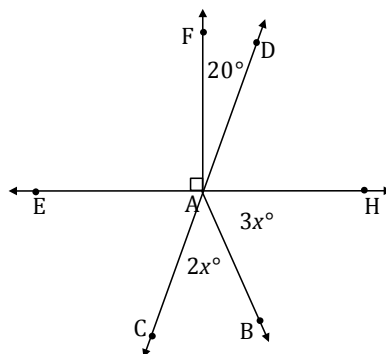
3. Find the measures of x and y .



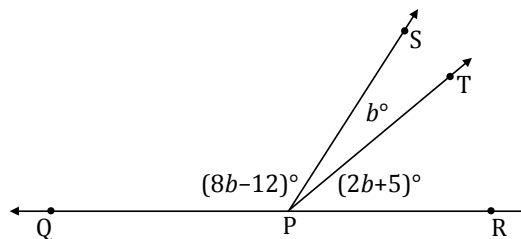
4. Find the measure of $\angle HAJ$.



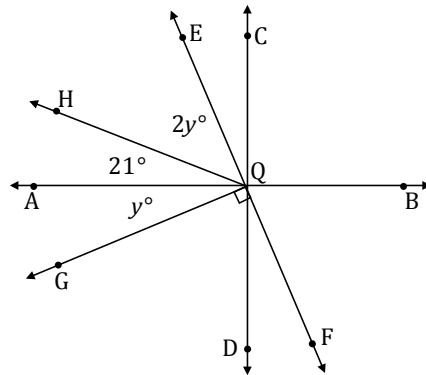
5. Find the measures of $\angle HAB$ and $\angle CAB$.



6. The measure of $\angle SPT$ is b° . The measure of $\angle TPR$ is five more than two times $\angle SPT$. The measure of $\angle QPS$ is twelve less than eight times the measure of $\angle SPT$. Find the measures of $\angle SPT$, $\angle TPR$, and $\angle QPS$.



7. Find the measures of $\angle HQE$ and $\angle AQG$.



8. The measures of three angles at a point are in the ratio of 2 : 3 : 5. Find the measures of the angles.
9. The sum of the measures of two adjacent angles is 72° . The ratio of the smaller angle to the larger angle is 1 : 3. Find the measures of each angle.
10. Find the measures of $\angle CQA$ and $\angle EQB$.

