**Angle Pairs Homework**
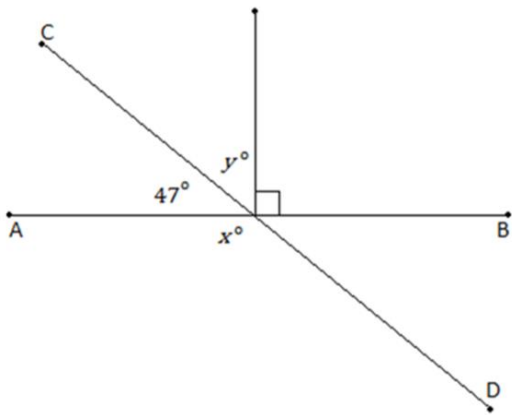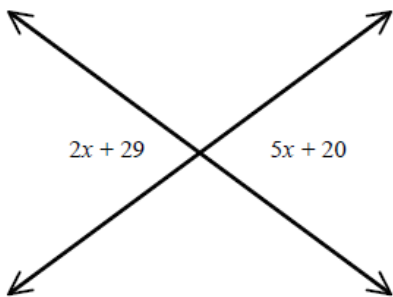
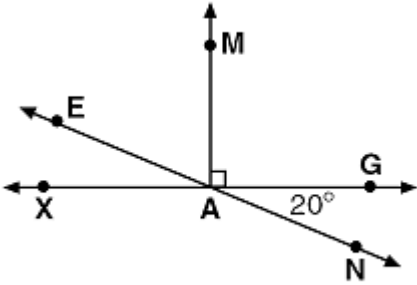1. Find the value of x below.
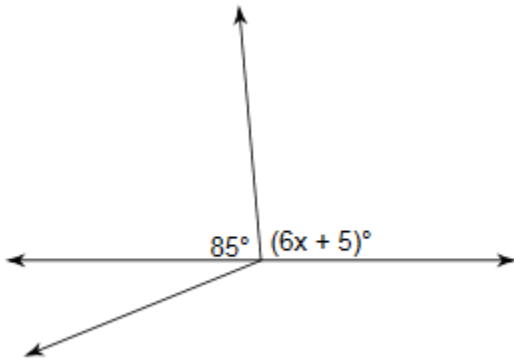


2. Find the values of *x* and *y*



3. Find the value of x.

4. Given $\angle 1$ and $\angle 2$ are complementary. If m $\angle 1$ = (x + 3)° and m $\angle 2$ = (4x − 8)°, find the m $\angle 2$.

5. Given the following: $\overleftrightarrow{XG}$ and $\overleftrightarrow{EN}$ intersect at A, $\overrightarrow{AM} \perp \overleftrightarrow{XG}$ and $m\angle GAN = 20°$. Find the measure of $\angle EAM$.



6. Use the diagram to determine whether the angles are complementary, supplementary, adjacent, linear pair, vertical or none of the above.



a)  $\angle 1$ and $\angle 5$

b)  $\angle 3$ and $\angle 4$

c)  $\angle 7$ and $\angle 8$

d)  $\angle 11$ and $\angle 13$