

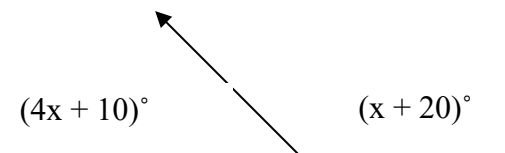
Angles Pairs

Complementary angles are two angles whose sum is 90° .

Supplementary angles are two angles whose sum is 180° .

Linear Pair – two adjacent angles whose exterior sides lie in a line, they are supplementary.

1. If $\angle A$ and $\angle B$ are complementary angles and $m \angle A = 60^\circ$, find $m \angle B$.
2. If $\angle X$ and $\angle Y$ are complementary angles and $m \angle A = 70^\circ$, find the complement of $\angle X$.
3. If $\angle P$ and $\angle Q$ are complementary angles and $m \angle P = (2x + 10)^\circ$ and the $m \angle Q = (3x + 20)^\circ$, find the value of x .
4. If $\angle A$ and $\angle B$ are supplementary angles and $m \angle A = 120^\circ$, find $m \angle B$.
5. If $\angle X$ and $\angle Y$ are supplementary angles and $m \angle A = 110^\circ$, find the complement of $\angle X$.
6. If $\angle P$ and $\angle Q$ are supplementary angles and $m \angle P = (2x + 10)^\circ$ and the $m \angle Q = (3x + 20)^\circ$, find the value of x .
7. Using the picture, find the value of x .



8. If $m \angle T = 60^\circ$, find the value of x , if its complement is given by $(5x + 10)^\circ$.
9. If $m \angle A = 100^\circ$, find the value of x , if its supplement is given by $(4x + 20)^\circ$.
10. If $m \angle D = (3x - 10)^\circ$ and $m \angle E = (4x - 20)^\circ$ and $\angle D$ and $\angle E$ are a linear pair, find the value of x .