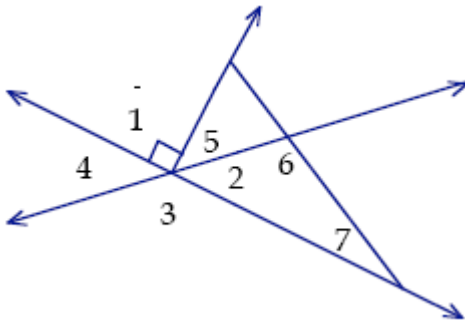


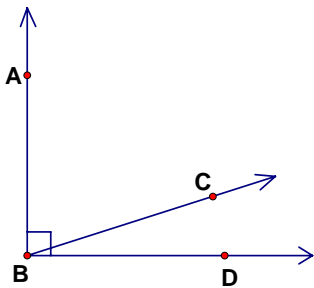
Homework 1-4 Pairs of Angles

Using the figure below to answer the following questions.



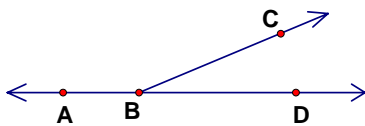
1. Name one pair of complementary angles.
2. Name two angles that make a linear pair.
3. Name one pair of vertical angles.
4. If $m\angle 4 = 43^\circ$, then find $m\angle 2$.
5. If $m\angle 2 = 33^\circ$, then find $m\angle 5$.
6. If $m\angle 2 = 37^\circ$, then find $m\angle 3$.

Refer to the figure below and answer the following questions.



7. If $m\angle ABC = 59^\circ$, then find $m\angle CBD$. _____
8. If $m\angle DBC = 17^\circ$, then find $m\angle CBA$. _____
9. If $m\angle ABD = 4x$, then find x . $x =$ _____
10. If $m\angle ABC = 2x + 23$ and $m\angle CBD = x + 2$, then find x . $x =$ _____

Refer to the figure below and answer the following questions.



11. If $m\angle ABC = 119^\circ$, then find $m\angle CBD$. _____
12. If $m\angle ABC = 5x + 5$ and $m\angle CBD = x + 15$, then find x . $x =$ _____

Find x and determine if $\overline{AB} \perp \overline{CD}$.

