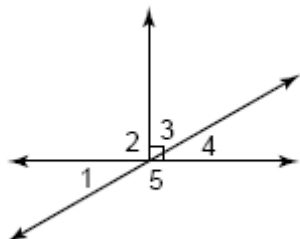


Classwork 1-5 Pairs of Angles

Using the figure below list all of the following that apply to each pair of angles:
adjacent, vertical, complimentary, supplementary, and linear pair



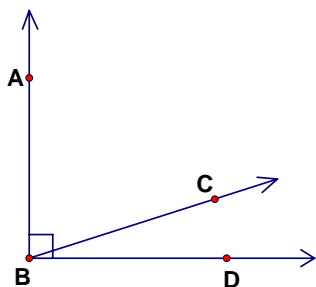
1. $\angle 1$ and $\angle 2$

2. $\angle 1$ and $\angle 4$

3. $\angle 4$ and $\angle 5$

4. $\angle 1$ and $\angle 5$

Refer to the figure below and answer the following questions.



5. If $m\angle ABC = 71^\circ$, then find $m\angle CBD$.

6. If $m\angle DBC = 23^\circ$, then find $m\angle CBA$.

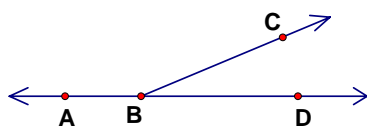
7. If $m\angle ABD = 2x - 7$, then find x .

8. If $m\angle ABC = 3x + 12$ and $m\angle CBD = x - 8$, then find x .

$x =$ _____

$x =$ _____

Refer to the figure below and answer the following questions.



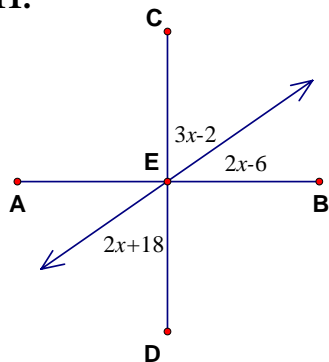
9. If $m\angle ABC = 136^\circ$, then find $m\angle CBD$.

10. If $m\angle ABC = 7x - 3$ and $m\angle CBD = 2x + 12$, then find x .

$x =$ _____

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

11.



12.

