

Name _____ Hour _____

$\angle 1$ and $\angle 2$ are complementary angles. $\angle 2$ and $\angle 3$ are supplementary angles.

1. If $m\angle 1 = 58^\circ$, then find $m\angle 2$ and $m\angle 3$.

2. If $m\angle 2 = 17^\circ$, then find $m\angle 1$ and $m\angle 3$.

3. If $m\angle 3 = 139^\circ$, then find $m\angle 1$ and $m\angle 2$.

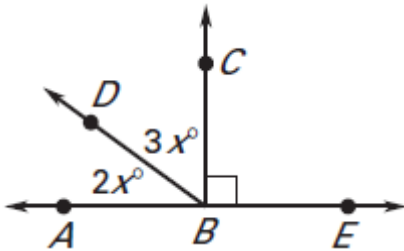
4. If $m\angle 1 = 84^\circ$, then find $m\angle 2$ and $m\angle 3$.

5. If $m\angle 1 = 31.5^\circ$, then find $m\angle 2$ and $m\angle 3$.

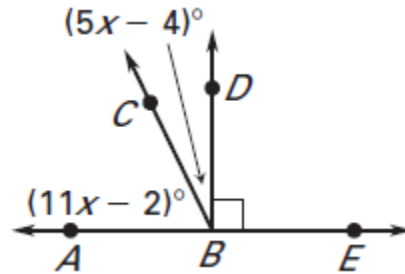
6. If $m\angle 2 = 63.25^\circ$, then find $m\angle 1$ and $m\angle 3$.

Find the value of x .

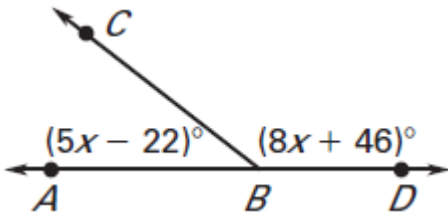
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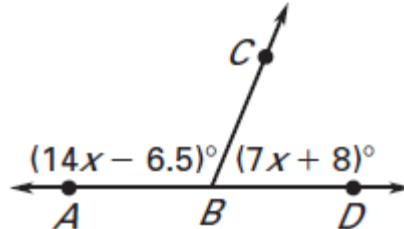
8.



9.



10.



$\angle E$ and $\angle F$ are complementary angles. Find the measure of $\angle E$ and $\angle F$.

11. $m\angle E = (4x + 34)^\circ$

12. $m\angle E = (21x + 12)^\circ$

$m\angle F = (x + 36)^\circ$

$m\angle F = (35x - 6)^\circ$

Angle Pair Relationships #1

$\angle G$ and $\angle H$ are supplementary angles. Find the measure of $\angle G$ and $\angle H$.

13. $m\angle G = (x+11)^\circ$
 $m\angle H = (x-15)^\circ$

14. $m\angle G = (-3x+90)^\circ$
 $m\angle H = (-5x+150)^\circ$

15. The measures of two complementary angles are $(16x-13)^\circ$ and $(2x-5)^\circ$. What is the measure of the larger angle?
16. The measures of two supplementary angles are $(9x-12)^\circ$ and $(24x+60)^\circ$. What is the measure of the smaller angle?
17. The measure of one angle is four times the measure of its supplement. Find the measure of each angle.
18. The measure of one angle is three times the measure of its complement. Find the measure of each angle.
19. The measure of one angle is 24° more than the measure of its supplement. Find the measure of each angle.
20. The measure of one angle is 19° less than the measure of its complement. Find the measure of each angle.