

Name: _____ Date: _____

Angles Homework

The following $\angle 1$ and $\angle 2$ are complementary angles. State the numerical value of x .

1. $m\angle 1 = 2x$, $m\angle 2 = 3x$	2. $m\angle 1 = x$, $m\angle 2 = x + 20$
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The following $\angle 3$ and $\angle 4$ are supplementary angles. State the numerical value of y .

3. $m\angle 3 = 2y$, $m\angle 4 = 3y - 15$	4. $m\angle 3 = y + 10$, $m\angle 4 = 3y - 10$
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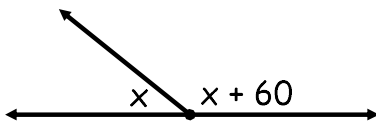
Solve.

_____ 5. The measure of an angle is 30 more than its complement. Find the measure
_____ of the angle and its complement.

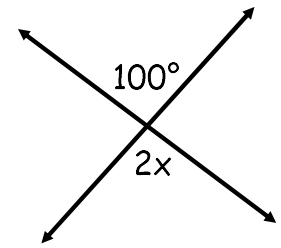
_____ 6. The measure of an angle is 20 less than the measure of its supplement.
_____ Find the measure of the angle, the measure of its supplement, and the
_____ measure of its complement.

Solve for x.

____ 7.

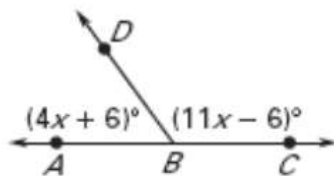


____ 8.



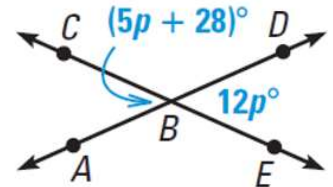
____ 9.

x = _____
 m∠ ABD = _____
 m∠ DBC = _____



____ 10.

x = _____
 m∠ ABC = _____
 m∠ DBE = _____



Challenge: Find all the missing angles given $m\angle 1 = 90^\circ$, $m\angle 2 = 34^\circ$, and $m\angle 6 = 137^\circ$.

$m\angle 3 =$ _____

$m\angle 4 =$ _____

$m\angle 5 =$ _____

$m\angle 7 =$ _____

$m\angle 8 =$ _____

