

2.5 Homework

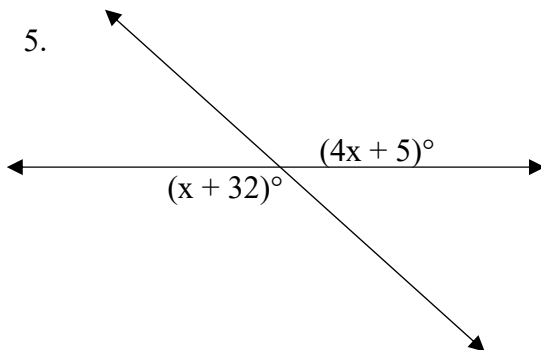
On your own paper, write the answers.

Fill in the blanks for each theorem.

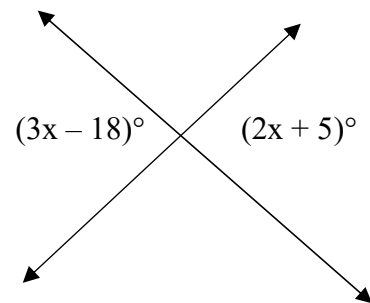
1. Vertical angles are _____.
2. If two angles are supplements of the _____, then the two angles are congruent.
3. If two angles are _____ and _____, then each is a right angle.
4. If two angles are complements of the _____, then the two angles are congruent.

Find the value of x . Write the equation. Show all the steps for solving.

5.



6.



Solve for the measure of the angle. Write the equation. Show all the steps for solving.

7. The measure of an angle is 5 times as great as the measure of its complement. Find the measure of the angle.
8. The measure of an angle exceeds 3 times its supplement by 4. Find the measure of the angle.
9. The measure of the supplement of an angle is 3 times as great as the measure of the angle's complement. Find the measure of the angle.