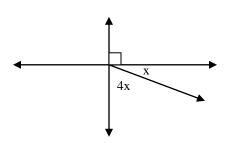
## **GEOMETRY**

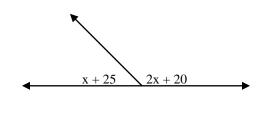
Complementary and Supplementary Angles

Show all work on loose leaf.

1.



2.



Find the value of x.

Find both angles.

- 3. Find the supplement of an angle that measures  $(5x + 20)^{\circ}$ .
- 4. An angle measures  $(3x 37)^{\circ}$ . What is the measure of its complement?
- 5. Two angles are supplementary. One angle is 30° more than another angle. Find both angles.
- 6. Two angles are complementary. One angle is 6 less than double another angle. Find the larger angle
- 7. Two angles are supplementary. One angle is 32 less than 3 times another angle. Find both angles.
- 8. The measure of two complementary angles are in the ratio 6:9. Find the measure of the smaller angle.
- 9. Lines AB and CD intersect at E. If m < AEC = 6x 27 and m < BEC = 8x + 11, find the measure of angle BEC.
- 10. The degree measure of the larger of two supplementary angles exceeds three times the smaller angle by 40. Find the measure of each angle.