Parallel Lines II
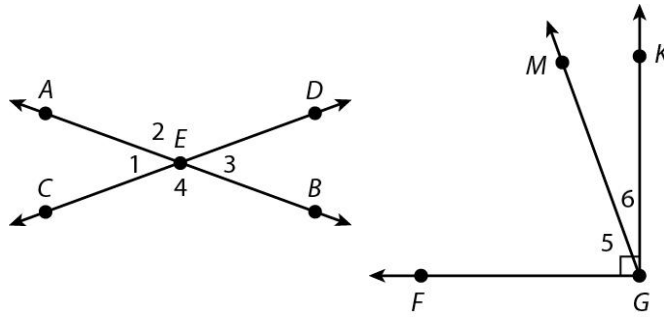
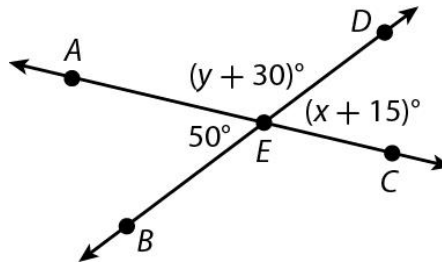**Terms:**
linear pair
supplementary angles
complementary angles
vertical angles

6. ∠5 and ∠6 are _____ and adjacent angles.

7. ∠1 and ∠3 are _____.

8. ∠1 and ∠2 are _____ and _____.

9. If ∠2 is 140°, then the measure of ∠1 is _____ and the measure of ∠4 is _____.

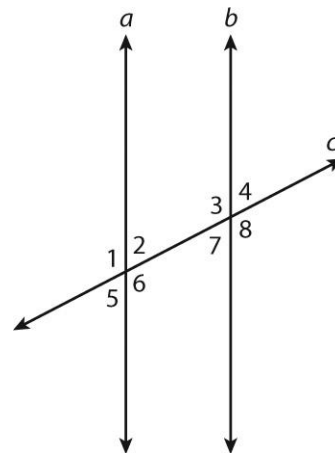**Use the figures for Problems 10–13.**

10. supplement of ∠AEB _____

11. complement of ∠AEB _____
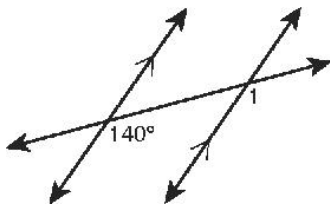
12. $x =$ _____

13. $y =$ _____

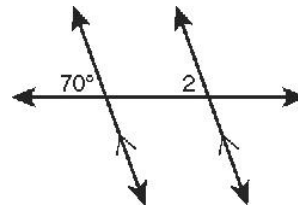**Directions: *a* and *b* are parallel lines, and *c* is a transversal.**

14. Name a pair of alternate interior angles.

15. Name a pair of same side interior angles.

16. Name a pair of corresponding angles.

17. Name a pair of alternate exterior angles.
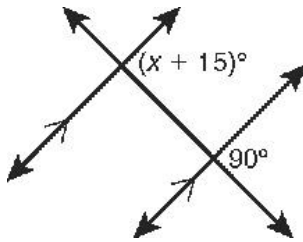
Find each angle measure.

18. m∠1 _____

19. m∠2 _____

Find x.

20.

21.