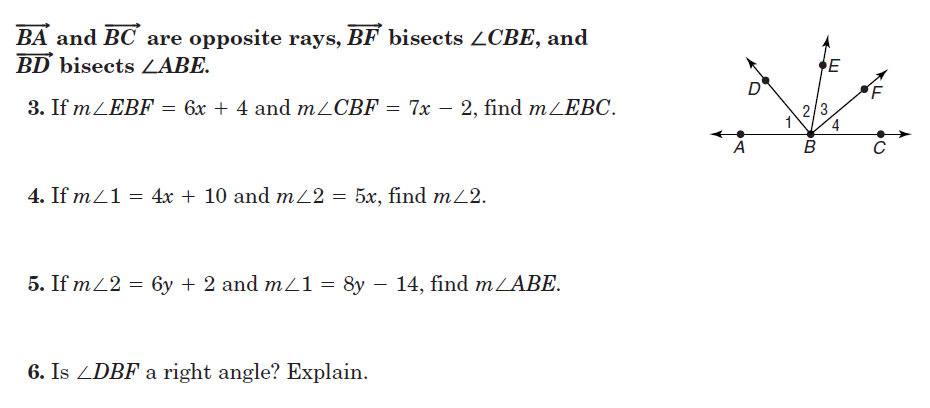
**Accelerated Angle Relationships Homework #1**

**Find the value of the variable and find the m<PQR. Justify steps!**

1. 2. 3.

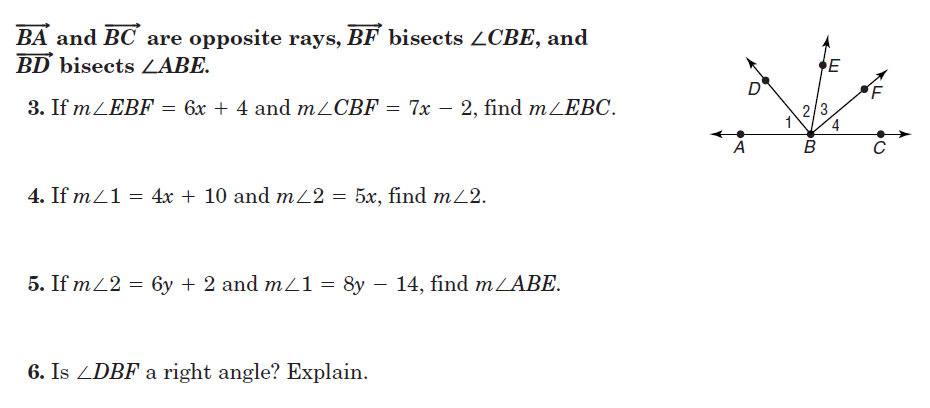
**bisects <CBE and bisects <ABE. Justify your steps.**

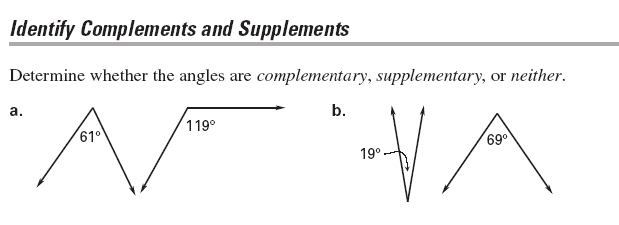
4. If and , find the possible value(s), if any, of the . You must check your work for credit.

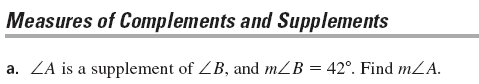


**bisects <CBE and bisects <ABE. Justify your steps.**

5. If and , find the possible value(s), if any, of . You must check your work.



6.



7.



**Decide whether the statement is *true or false*. If the statement if false, reword the statement so it is true.**

8. Two angles are complementary if the sum of their measures is 180°

9. Two angles are supplementary if the sum of their measures is 180°

10. Two angles are adjacent angles if they share a common vertex.

**Determine whether the angles are complementary, supplementary or neither.**



11. 12. 13.

**Find the measure of the complement of the given angle.**



14. 15. 16.

**Find the measure of the supplement of the given angle.**



17. 18. 19.

**Find the measure of EACH numbered angle. Justify steps!**



20. 21. 22.



23. 24. 25.