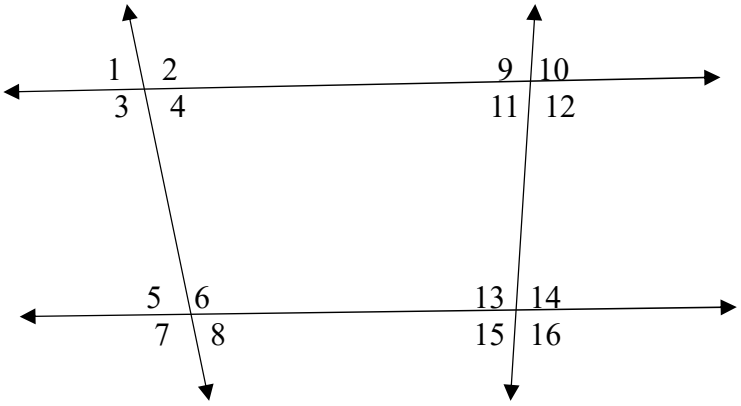
3.1 Homework

On your own paper, write the answers.

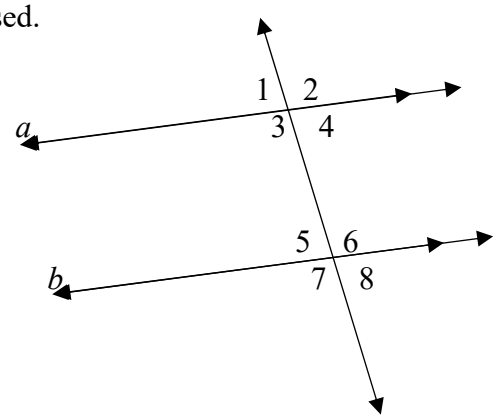
Classify the angle pair as c*orresponding, alternate interior, alternate exterior, same side interior,* or *same side exterior angles.*

1. ∠5 and ∠1
2. ∠11 and ∠13
3. ∠10 and ∠15
4. ∠2 and ∠11
5. ∠6 and ∠13



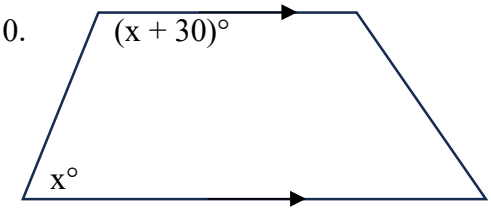
Find the angle measure. Tell which postulate or theorem you used.
Lines *a* and *b* are parallel.

6. If m∠4 = 68°, then m∠1 = ____.
7. If m∠7 = 110°, then m∠2 = ____.
8. If m∠5 = 72°, then m∠4 = ____.
9. If m∠3 = 123°, then m∠5 = ____.



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

10.



11.