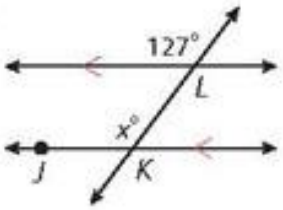
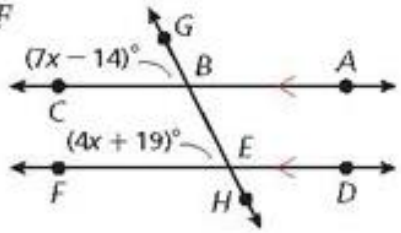
Textbook p158 #1-19, 27, 28 and the two problems at the end

Find each angle measure.

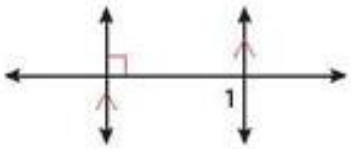
1. m∠*JKL*



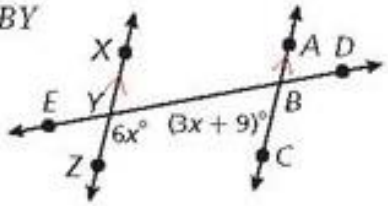
2. m∠*BEF*



3. m∠1



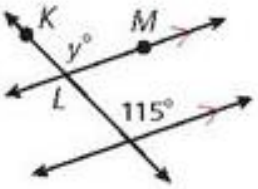
4. m∠*CBY*



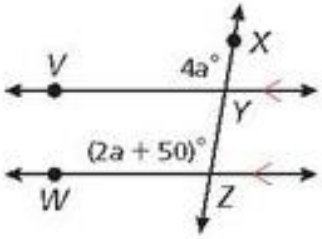
5. **Safety** The railing of a wheelchair ramp is parallel to the ramp. Find *x* and *y* in the diagram.

Find each angle measure.

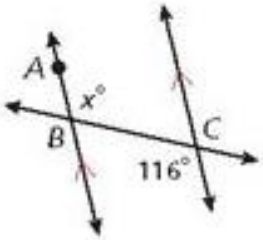
6. m∠*KLM*



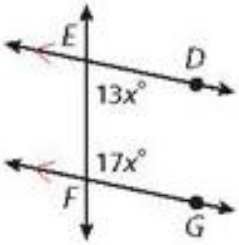
7. m∠*VYX*



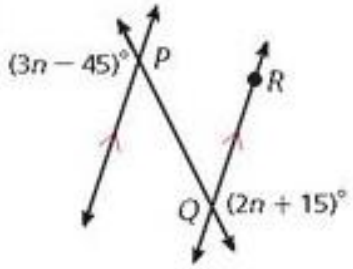
8. m∠*ABC*



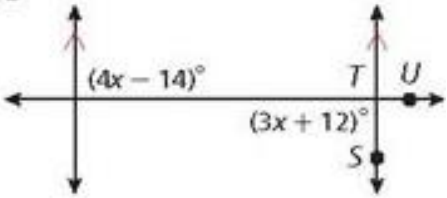
9. m∠*EFG*



10. m∠*PQR*



11. m∠*STU*

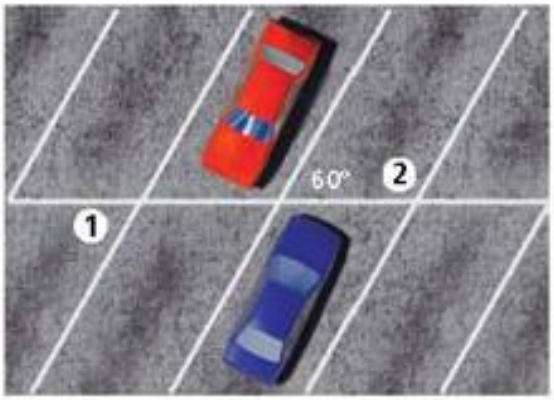


12. **Parking** In the parking lot shown, the lines that mark the width of each space are parallel.

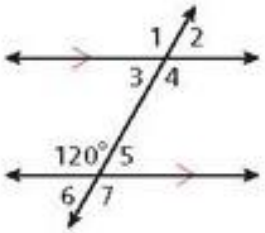
$m\angle 1 = (2x - 3y)^\circ$

$m\angle 2 = (x + 3y)^\circ$

Find x and y.



Find each angle measure. Justify each answer with a postulate or theorem.



13. $m\angle 1$ 14. $m\angle 2$ 15. $m\angle 3$

16. $m\angle 4$ 17. $m\angle 5$ 18. $m\angle 6$

19. $m\angle 7$

Draw the given situation or tell why it is impossible.

27. Two parallel lines are intersected by a transversal so that the corresponding angles are supplementary.

28. Two parallel lines are intersected by a transversal so that the same-side interior angles are complementary.

Solve for x and y