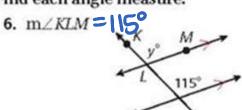
Page 158 – 160 # 6 – 19, 27-28, 30, and 34

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



Find each angle measure.

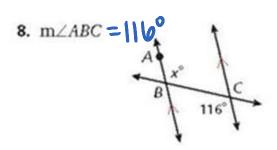


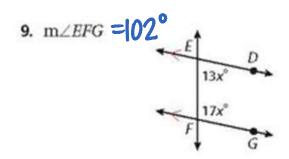
7. 
$$m \angle VYX = 100^{\circ}$$

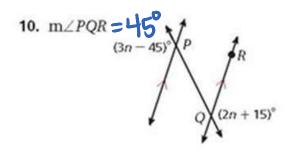
$$V \qquad 4a^{\circ}$$

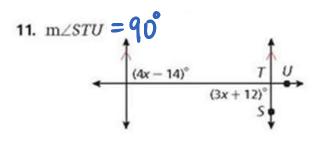
$$X \qquad (2a + 50)^{\circ}$$

$$Z \qquad (2a + 50)^{\circ}$$









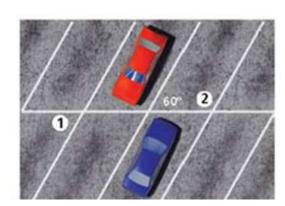
 Parking In the parking lot shown, the lines that mark the width of each space are parallel.

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

Find x and y.

$$X = 60$$

$$y = 20$$

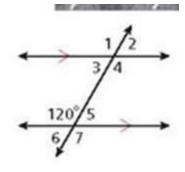


## Find each angle measure. Justify each answer with a postulate or theorem.

- 13. m/1
- 14. m/2
- 15. m∠3

- 16. m/4
- 17. m∠5
- 18. m/6

19. m/7



- 13 120° by corr L's

  14. 60° by Linear Pair L's

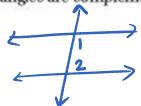
  15. 60° by Same Side Int Ls
- 16. 120 by Alt Int Ls
- 17 60° by Linear Pair Ls 18 60° by Linear Pair Ls 19 120° by Vertical Ls

## 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.

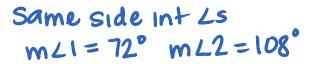


28. Two parallel lines are intersected by a transversal so that the same-side interior angles are complementary



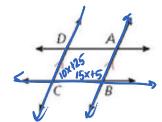
Situation is impossible, ble when Il lines are cut by a transversal, same side int Ls are supp (not comp)

Land Development A piece of property lies between two parallel streets as shown.  $m\angle 1 = (2x+6)^{\circ}$ , and  $m\angle 2 = (3x+9)^{\circ}$ . What is the relationship between the angles? What are their measures?





31. **MERROR ANALYSIS** In the figure,  $m\angle ABC = (15x + 5)^{\circ}$ , and  $m\angle BCD = (10x + 25)^{\circ}$ . Which value of  $m\angle BCD$  is incorrect? Explain.



A is incorrect, blc
the student set them
equal to each other
Since LABC and LBCD blc
are supplementary, side
the student should
their

15x + 5 = 1 $-10x - 1$	Ox + D
5x + 5 =	25
-5	-5
5x =	20
x = 4	

$     \begin{array}{r}       25x + 30 = 18 \\       -30 - 30 \\       \hline       25x = 15 \\       x = 6     \end{array} $
x = 6

the student should have added their measures together to equal 180°.