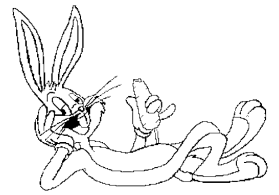


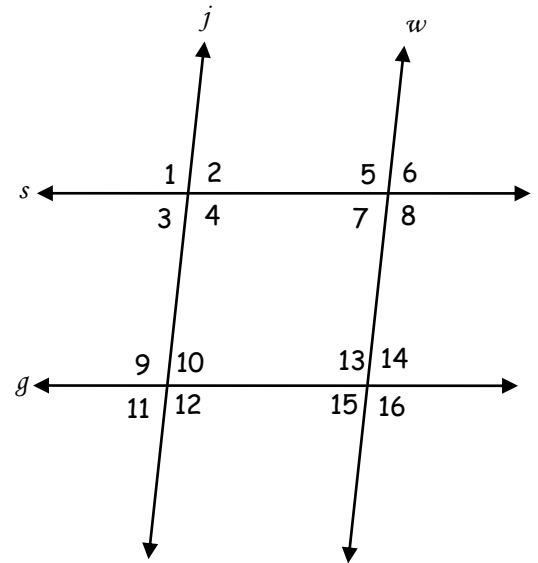
# Proving Lines are Parallel and Angle Pairs Review



Name \_\_\_\_\_ Block \_\_\_\_\_

Refer to the diagram. Use the given information to determine which lines, if any, must be parallel. Justify your answers.

1. $m\angle 1 + m\angle 3 = 180^\circ$ CONCLUSION: REASON:	2. $\angle 2 \cong \angle 10$ CONCLUSION: REASON:
3. $\angle 3 \cong \angle 16$ CONCLUSION: REASON:	4. $\angle 11 \cong \angle 14$ CONCLUSION: REASON:
5. $m\angle 2 + m\angle 12 = 180^\circ$ CONCLUSION: REASON:	6. $m\angle 8 + m\angle 14 = 180^\circ$ CONCLUSION: REASON:
7. $m\angle 2 + m\angle 5 = 180^\circ$ CONCLUSION: REASON:	8. $\angle 9 \cong \angle 12$ CONCLUSION: REASON:
9. $\angle 1 \cong \angle 16$ CONCLUSION: REASON:	10. $\angle 7 \cong \angle 14$ CONCLUSION: REASON:



Find the angle that best complete each statement.

11. What is the alternate interior angle with:

a)  $\angle 3$

b)  $\angle 5$

\_\_\_\_\_

\_\_\_\_\_

12. What is the consecutive interior angle with:

a)  $\angle 3$

b)  $\angle 6$

\_\_\_\_\_

\_\_\_\_\_

13. What is the corresponding angle with:

a)  $\angle 1$

b)  $\angle 6$

\_\_\_\_\_

\_\_\_\_\_

c)  $\angle 4$

d)  $\angle 7$

\_\_\_\_\_

\_\_\_\_\_

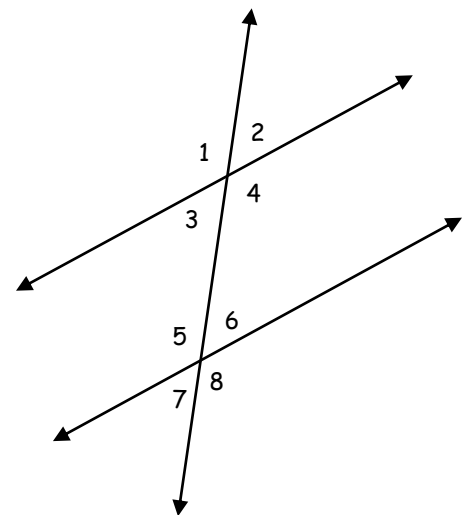
14. What is the alternate exterior angle with:

a)  $\angle 8$

b)  $\angle 7$

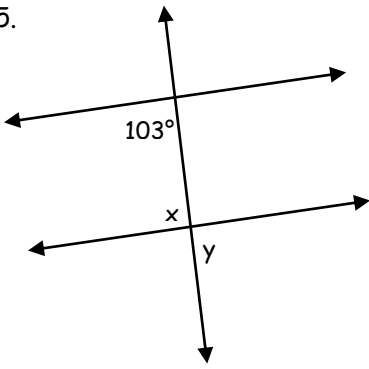
\_\_\_\_\_

\_\_\_\_\_



Find the measure of the missing angles.

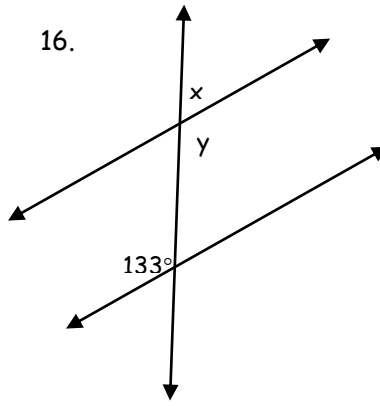
15.



$x = \underline{\quad}$

$y = \underline{\quad}$

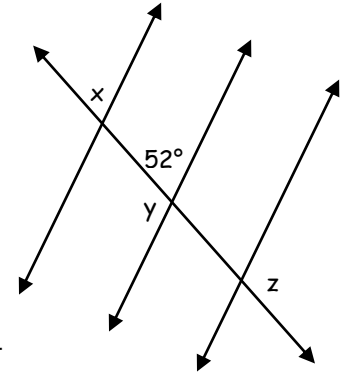
16.



$x = \underline{\quad}$

$y = \underline{\quad}$

17.



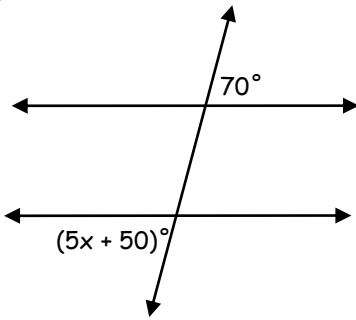
$x = \underline{\quad}$

$y = \underline{\quad}$

$z = \underline{\quad}$

Solve for x and classify the pairs. If they are not a pair, write none. SHOW ALL WORK!!!!

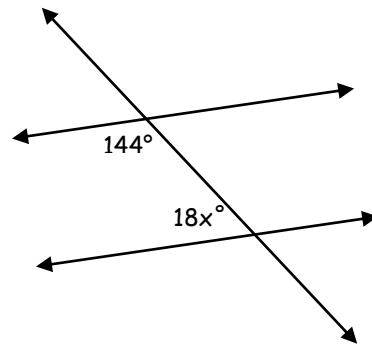
18.



$x = \underline{\quad}$

Angle Pair:                     

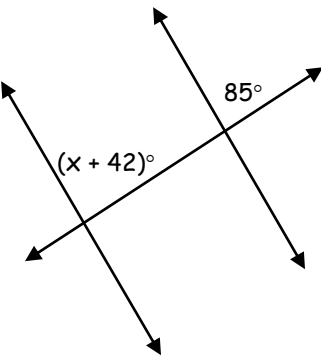
19.



$x = \underline{\quad}$

Angle Pair:                     

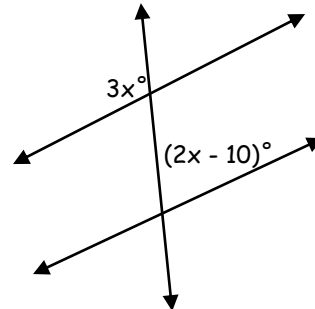
20.



$x = \underline{\quad}$

Angle Pair:                     

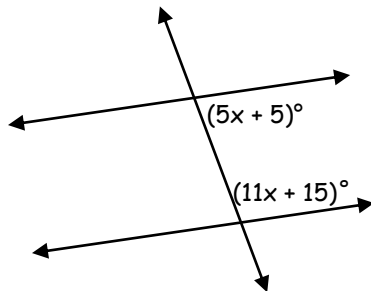
21.



$x = \underline{\quad}$

Angle Pair:                     

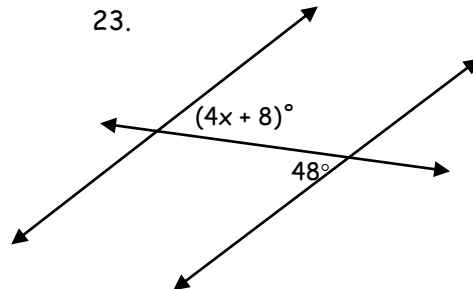
22.



$x = \underline{\quad}$

Angle Pair:                     

23.



$x = \underline{\quad}$

Angle Pair: