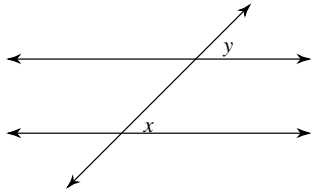


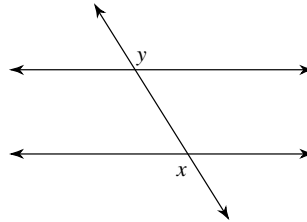
Parallel Lines and Transversals

Identify each pair of angles as corresponding, alternate interior, alternate exterior, or consecutive interior.

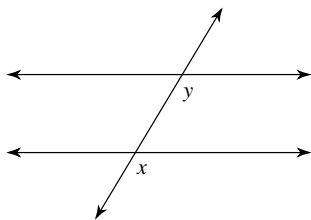
1)



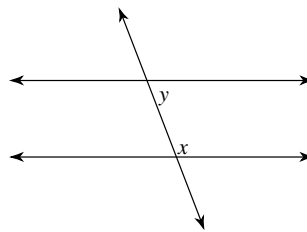
2)



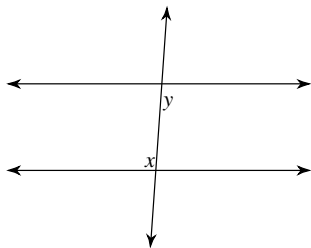
3)



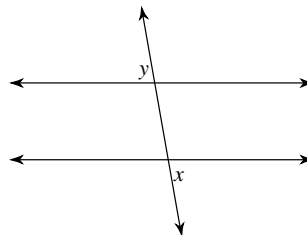
4)



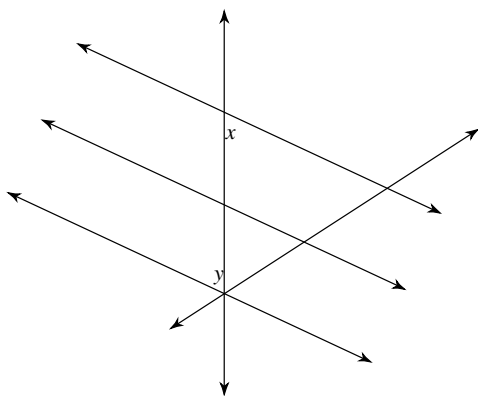
5)



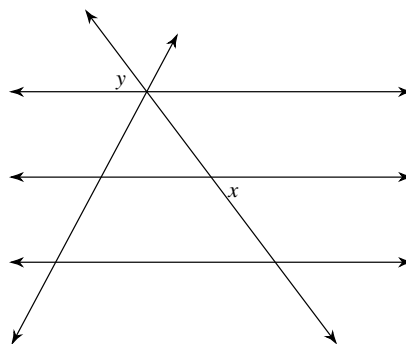
6)



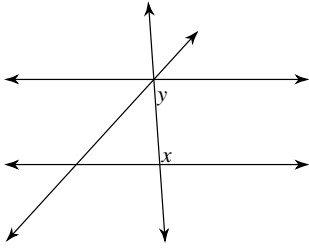
7)



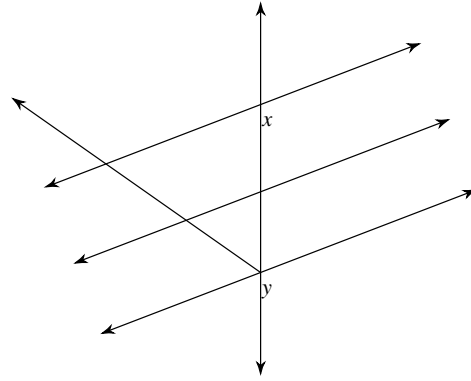
8)



9)

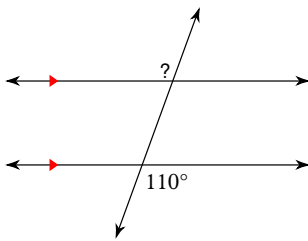


10)

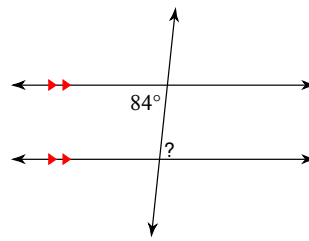


Find the measure of each angle indicated.

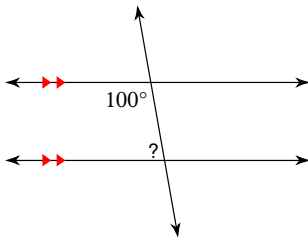
11)



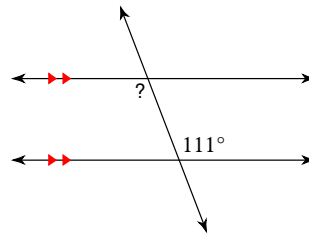
12)



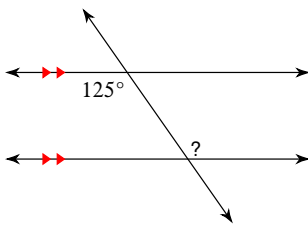
13)



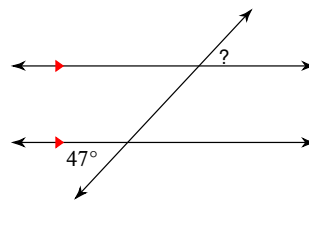
14)



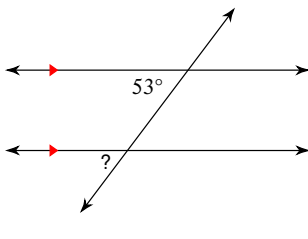
15)



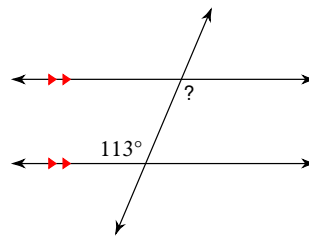
16)



17)

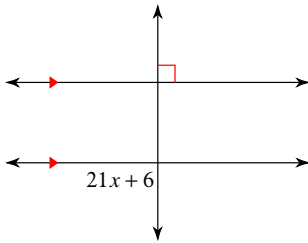


18)

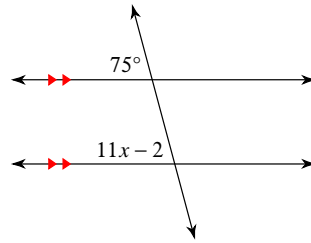


Solve for x .

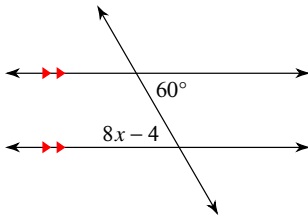
19)



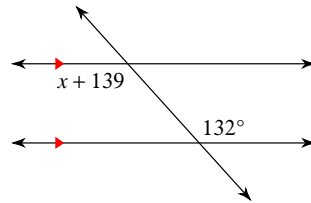
20)



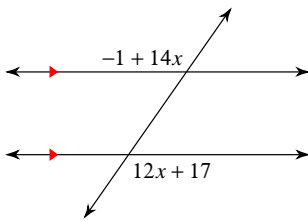
21)



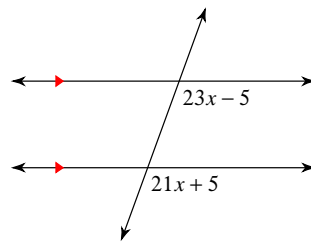
22)



23)

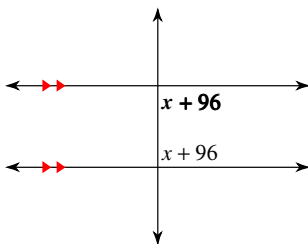


24)

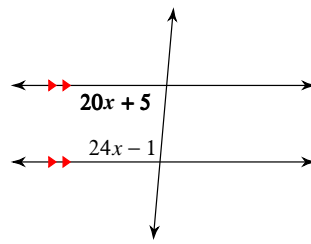


Find the measure of the angle indicated in bold.

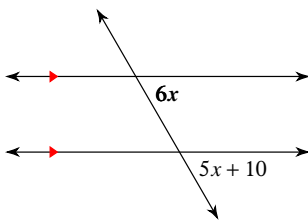
25)



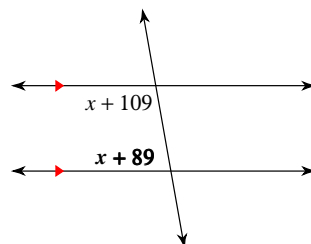
26)



27)



28)



3.1 Puzzle Time

What Has A Foot On Each End And One In The Middle?

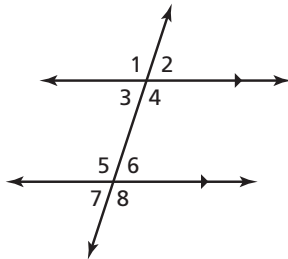
Write the letter of each answer in the box containing the exercise number.

Fill in the blank.

1. Two lines are _____ when they do not intersect and are coplanar.
2. Two planes that do not intersect are _____.
3. Two lines are _____ when they share all the same points.
4. Two lines are _____ lines when they do not intersect and are not coplanar.
5. A(n) _____ is a line that intersects two or more coplanar lines at different points.

Identify the type of the pairs of angles.

6. $\angle 3$ and $\angle 5$
7. $\angle 1$ and $\angle 8$
8. $\angle 2$ and $\angle 6$
9. $\angle 1$ and $\angle 4$
10. $\angle 4$ and $\angle 5$



| | | | | | | | | | | |
|---|--|----|---|---|---|---|---|---|---|---|
| 1 | | 10 | 8 | 2 | 6 | 4 | 9 | 5 | 7 | 3 |
|---|--|----|---|---|---|---|---|---|---|---|

Answers

- G. unskew
- K. coincident
- H. conditional
- C. alternate exterior angles
- I. transversal
- T. angular
- U. straight
- S. skew
- L. horizontal
- R. parallel planes
- N. lined angles
- T. vertical angles
- P. inverse angles
- A. parallel lines
- D. consecutive interior angles
- B. revolving angles
- L. converse angles
- Y. alternate interior angles
- M. intersecting angles
- A. corresponding angles



Puzzle Time

What Did The Acorn Say When It Grew Up?

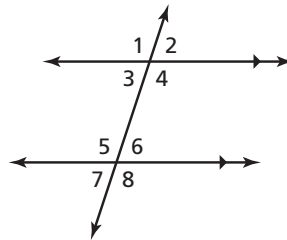
Circle the letter of each correct answer in the boxes below. The circled letters will spell out the answer to the riddle.

Complete the sentence.

- If two parallel lines are cut by a transversal, then the pairs of consecutive interior angles are _____.
- If two parallel lines are cut by a transversal, then the pairs of alternate interior angles are _____.

Find the angle measure.

- $m\angle 2 = 74^\circ$; Find $m\angle 1$.
- $m\angle 2 = 74^\circ$; Find $m\angle 3$.
- $m\angle 1 = 114^\circ$; Find $m\angle 8$.
- $m\angle 4 = 56^\circ$; Find $m\angle 6$.
- $m\angle 1 = 84^\circ$; Find $m\angle 7$.
- $m\angle 8 = 116^\circ$; Find $m\angle 2$.



| | | | | | | | |
|-----------------|------------------|------------------|-----------------|------------------|---------------------------|---------------------------|-----------------------|
| G 64° | E 124° | I 116° | F 66° | O 106° | A transitive | E complementary | M congruent |
| T 84° | E 74° | I 34° | T 96° | R 114° | Y supplementary | M 56° | E 116° |