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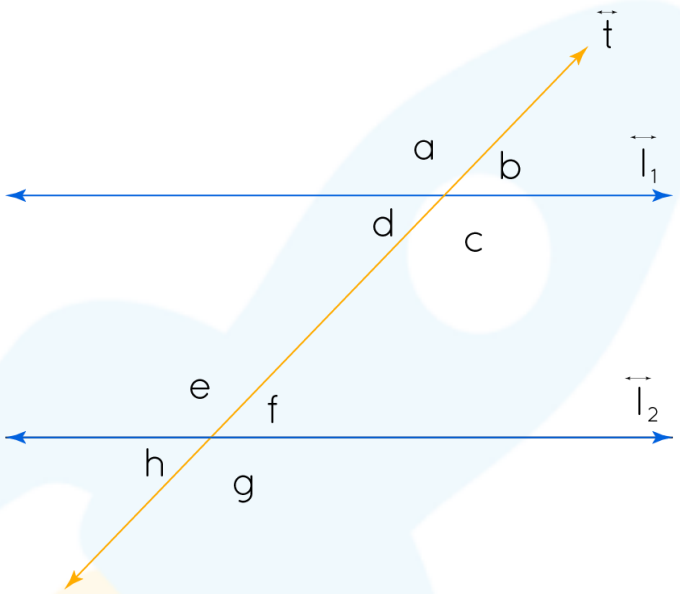
Parallel Lines and Transversals Worksheets

Line l_1 and l_2 are parallel lines cut by a transversal t. Write the angle relationship for each pair of angles.



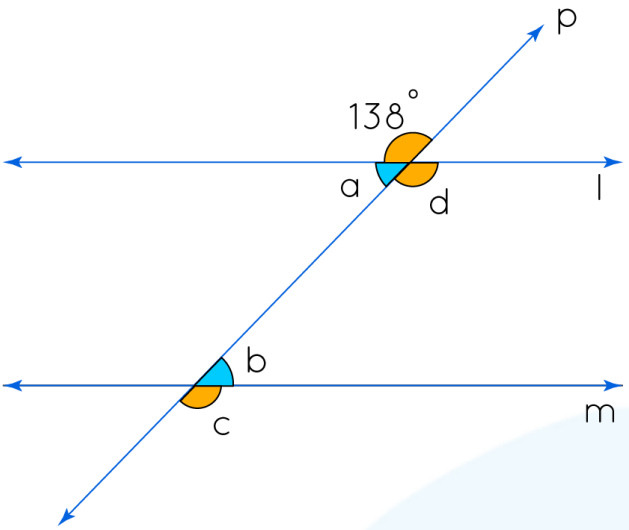
1. ∠b and ∠g are _____.

2. ∠e and ∠c are _____.

3. ∠b and ∠f are _____.

4. ∠h and ∠c are _____.

Line l is parallel to line m. Line p is the transversal. Find the missing angles.



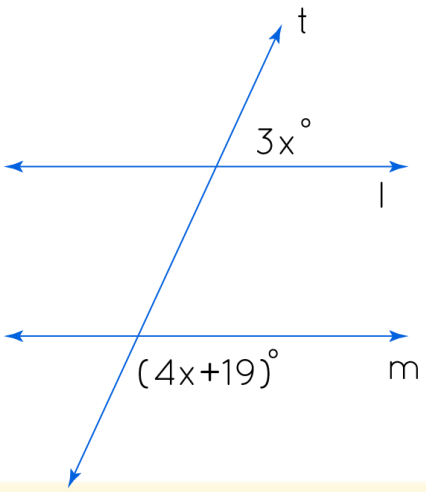
5. m∠a = _____

6. m∠c - m∠b = _____

7. m∠c + m∠d = _____

8. m∠d = _____

Consider the following figure:



9. Are the given angles equal? Why?

10. Work out the value of x if the given lines are parallel.

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- Gary Schwartz

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- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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ANSWERS

1. Supplementary angles.	6. 96°
2. Alternate interior angles and are thus equal.	7. 276°
3. Corresponding angles and are thus equal.	8. 138°
4. Supplementary angles.	9. The angles will be equal (corresponding angles) if the lines are parallel.
5. 42°	10. X = 23

FUN FACT

1. Do parallel lines never meet? Some theorize they meet at the infinity.

2. Parallel lines have a constant distance between them.

3. Concentric circles are parallel.