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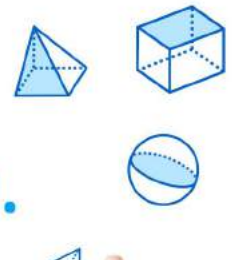

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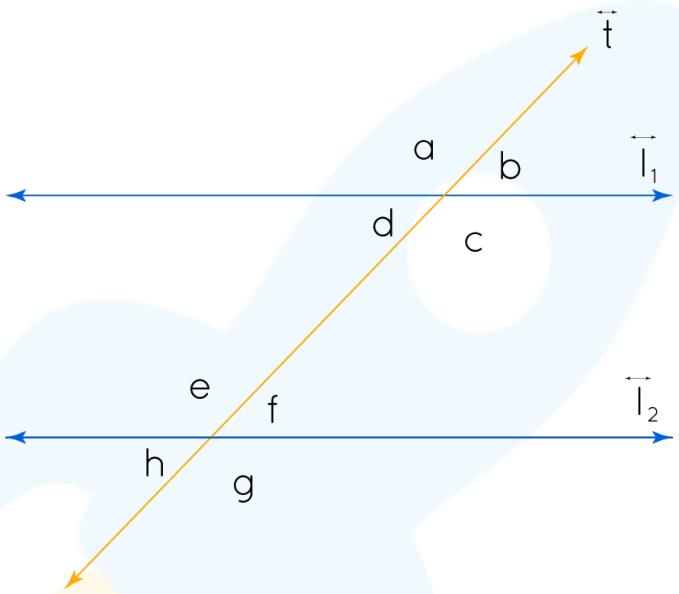
Parallel Lines and Transversals Worksheets

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



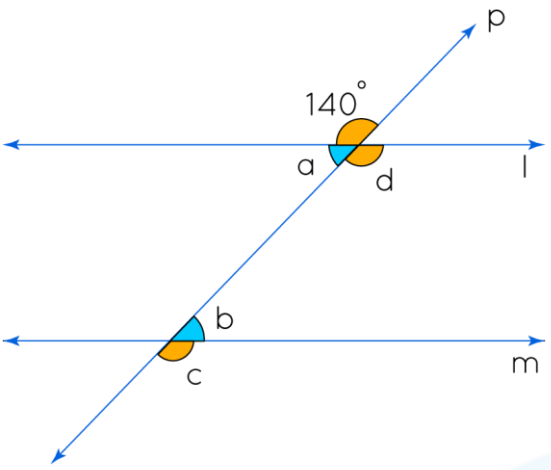
1. ∠e and ∠c are _____.

2. ∠b and ∠h are _____.

3. ∠a and ∠e are _____.

4. ∠h and ∠f are _____.

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



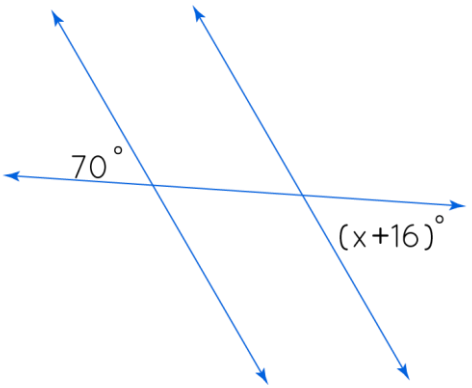
5. m∠a + m∠c = _____

6. m∠a + m∠b = _____

7. m∠c = _____

8. m∠d + m∠c = _____

Consider the following figure:



9. Are the given angles equal? Why?

10. Work out the angles if the given lines are parallel.

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- Gary Schwartz

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- Kirk Riley

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- Barbara Cabrera

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ANSWERS

1. Alternate interior angles and are thus equal.	6. 80°
2. Alternate exterior angles and are thus equal.	7. 140°
3. Corresponding angles and are thus equal.	8. 280°
4. Vertically opposite angles.	9. The given angles will be equal if the lines are parallel.
5. 180°	10. x = 54°

FUN FACT

1. Curves and circles can be parallel too.
2. Parallel lines have a constant distance between them.
3. Concentric circles are parallel.