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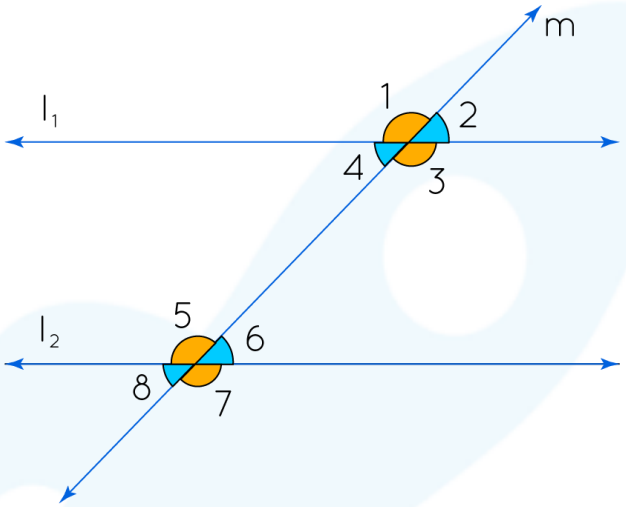
Parallel Lines and Transversals Worksheets

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



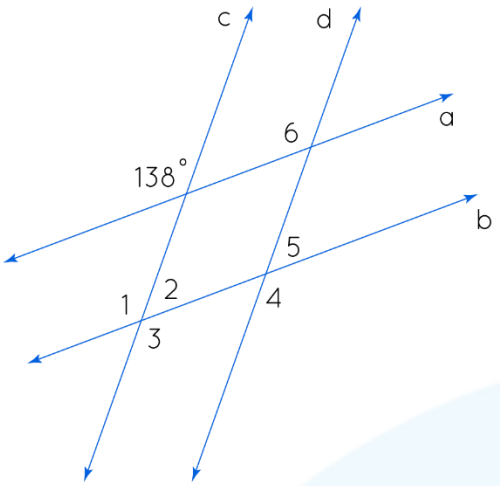
∠4 and ∠8 are _____.

∠5 and ∠3 are _____.

∠3 and ∠7 are _____.

∠2 and ∠8 are _____.

Line a is parallel to line b. Line c is parallel to line d. Find the angle measures.



5. m∠2 = _____

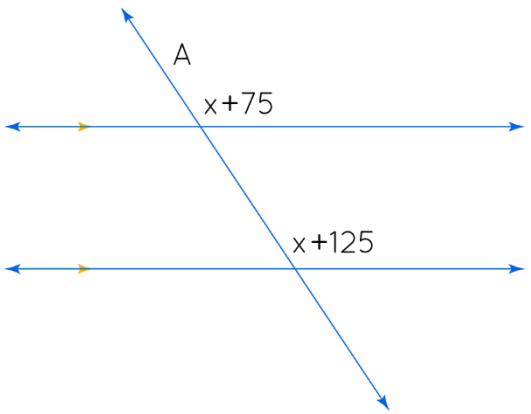
6. m∠6 + m∠5 = _____

7. m∠3 = _____

8. m∠4 = _____

Work out the angles if the given lines are parallel.

9.



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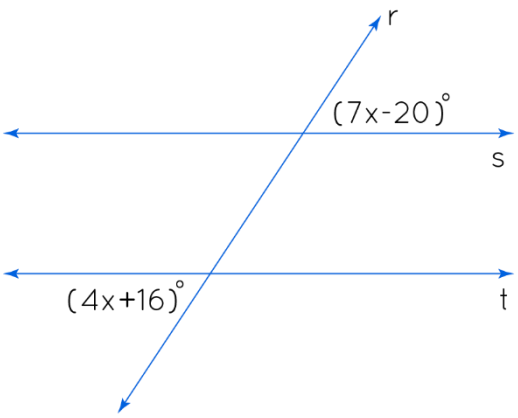

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Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- 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. Corresponding angles and are thus equal.	6. 180°
2. Alternate interior angles and are thus equal.	7. 138°
3. Corresponding angles and are thus equal.	8. 138°
4. Alternate exterior angles and are thus equal.	9. x = 0
5. 42°	10. x = 12

FUN FACT

1. Parallel lines do meet at some point. They meet at infinity.

2. The slopes of parallel lines are always equal.

3. Parallel lines cut by a transversal create 8 angles that have relationships. If you know the measurement of 1 of the angles and the relationship between angles, you can find the remaining 7 angles.