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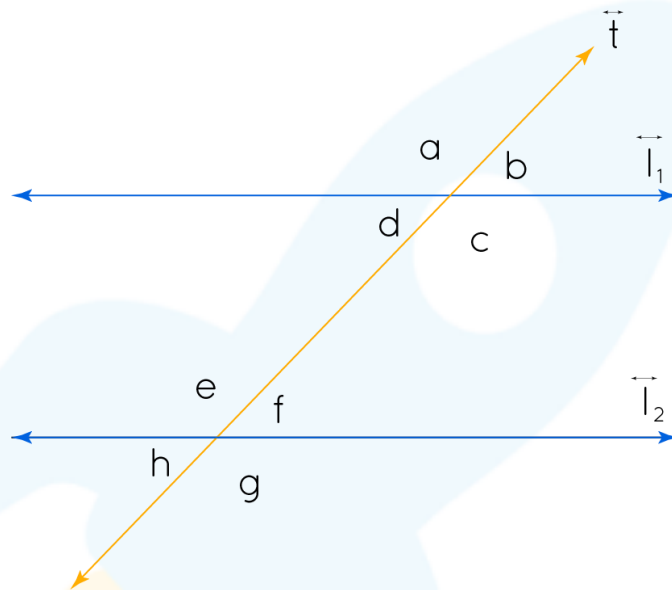
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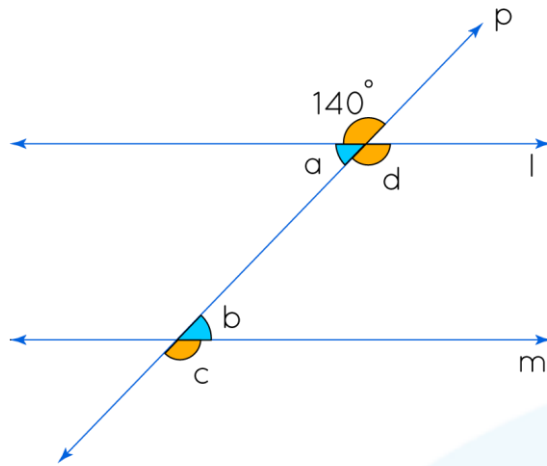
## Parallel Lines and Transversals Worksheets

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



1.  $\angle a$  and  $\angle f$  are \_\_\_\_\_.
2.  $\angle h$  and  $\angle b$  are \_\_\_\_\_.
3.  $\angle a$  and  $\angle g$  are \_\_\_\_\_.
4.  $\angle c$  and  $\angle f$  are \_\_\_\_\_.

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



5.  $m\angle a =$  \_\_\_\_\_

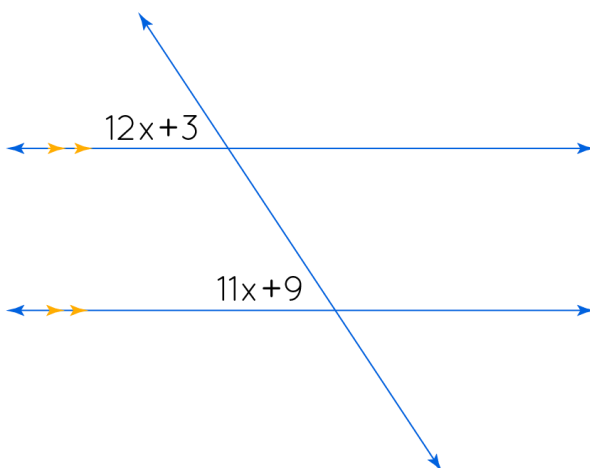
6.  $m\angle b =$  \_\_\_\_\_

7.  $m\angle c =$  \_\_\_\_\_

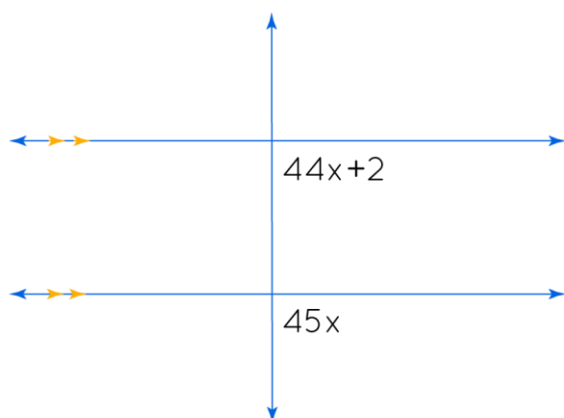
8.  $m\angle d =$  \_\_\_\_\_

Work out the angles if the given lines are parallel.

9.



10.



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in an interesting way,  
you never forget.



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- 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.<br>Supplementary angles.                         | 6.<br>$40^\circ$  |
| 2. Alternate exterior angles and are thus equal.    | 7.<br>$140^\circ$ |
| 3.<br>Alternate exterior angles and are thus equal. | 8.<br>$140^\circ$ |
| 4.<br>Supplementary angles.                         | 9.<br>$x = 6$     |
| 5. $40^\circ$                                       | 10.<br>$x = 2$    |

## FUN FACT

1. Parallel lines do meet at some point. They meet at infinity.
2. The slopes of parallel lines are always equal.
3. Curves and circles can be parallel too.

