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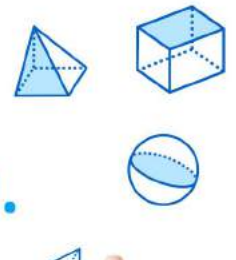

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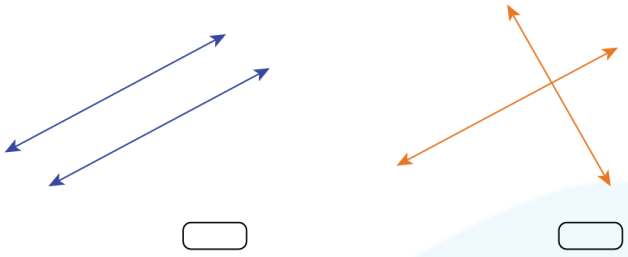
PARALLEL LINES WORKSHEET-I

1) State whether the following set of lines are parallel or not.

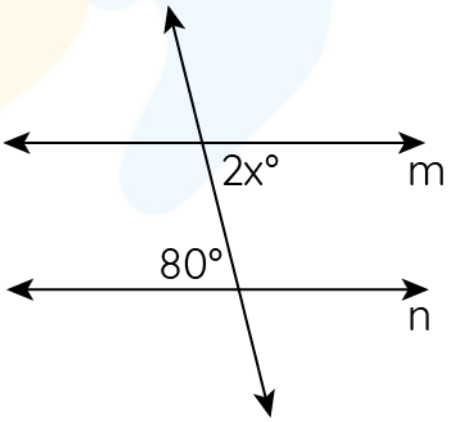


(a) (b)

2) The two straight lines in the same plane which never meet are called _____.

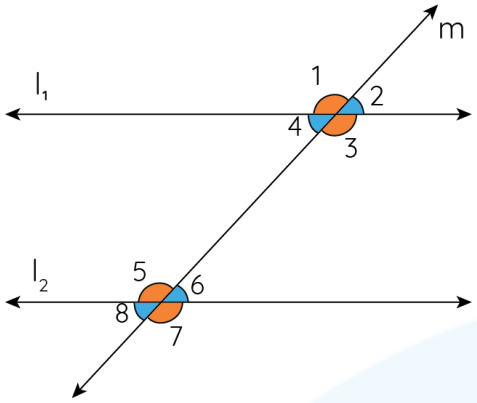
a) angles
b) transversal lines
c) vertex
d) parallel lines

3) Find the suitable value of x for which the following set of lines would be parallel.

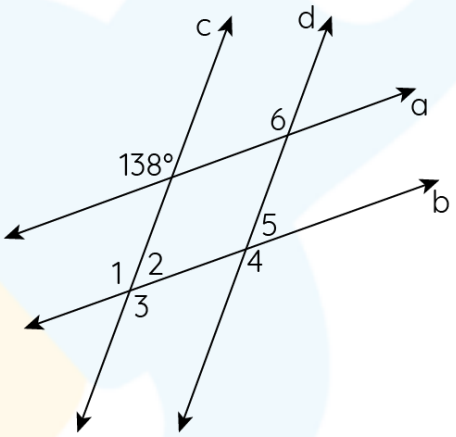


4) State whether true or false:
Alternate exterior angles be complementary for a set of parallel lines.

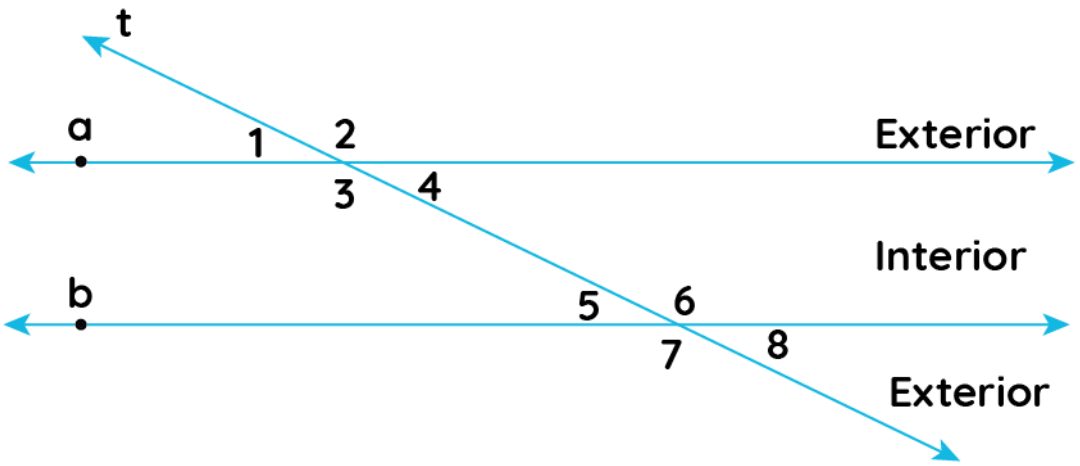
5) What is the relationship between ∠4 and ∠8 according to the given figure?



6) Calculate the sum of ∠5 and ∠6 if lines a || b and c || d.



Answer Q.7, Q.8 and Q.9 based on the following image:



7) Identify the set of equal alternate interior angles in the above figure.

8) Identify the set of consecutive interior angles from the figure.

9) State the property to make a conjecture about the angle measures of the above consecutive interior angle pairs.

10) Draw a diagram representing a set of parallel lines.

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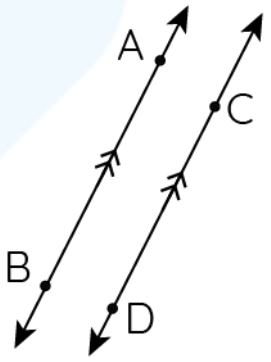
ANSWERS

1)	a) parallel b) not parallel
2)	d)
3)	40
4)	False
5)	$\angle 4 = \angle 8$; Corresponding angles are equal.
6)	$\angle 5 + \angle 6 = 180^0$
7)	$\angle 3 = \angle 6$ $\angle 4 = \angle 5$
8)	$\angle 3, \angle 5$ $\angle 4, \angle 6$
9)	Consecutive interior angles are supplementary. $\angle 3 + \angle 5 = 180°$ $\angle 4 + \angle 6 = 180°$
10)	

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.