

# LINES AND ANGLES

## Subtopic: Checking for Parallel Lines

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### Section 1

1. Mark T for True and F for False

1a. When lines drawn on a sheet of paper do not meet however far produced, we call them to be alternate lines.

1b. When a transversal cuts two parallel lines we have every corresponding angle pair to be equal.

2. Choose the correct answer.

2a. Letter Z has

- a) Parallel lines
- b) No parallel lines

2b. Letter H has

- a) Parallel lines
- b) No parallel lines

3. Fill in the blanks

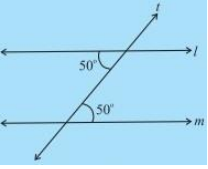
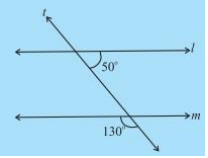
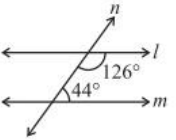
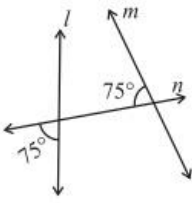
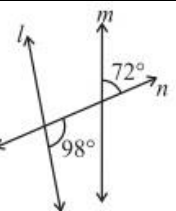
3a..When a transversal ends two parallel lines we have every pair of alternate angles to be \_\_\_\_\_.

3b. Each pair of interior angles on the same side of transversal are \_\_\_\_\_.

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4. Write in column parallel or not.

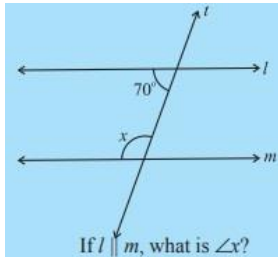
Lines	Parallel or not
<p>a) </p>	1)
<p>b) </p>	2)
<p>c) </p>	3)
<p>d) </p>	4)
<p>e) </p>	5)

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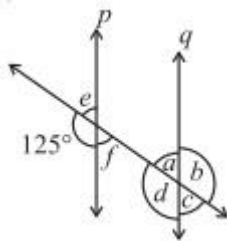
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### Section 2

5. If  $l$  is parallel to  $m$ , what is angle  $x$ ?



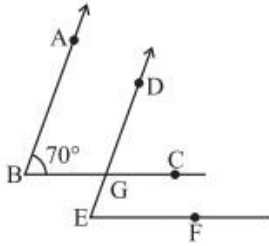
6. If  $p$  is parallel to  $q$ , find the unknown angles.



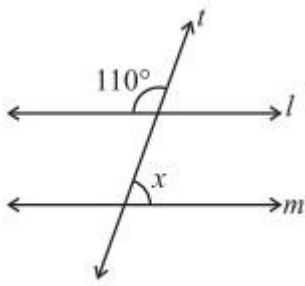
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7. In the given figure, the arms of two angles are parallel. If  $\angle ABC = 70^\circ$ , then find (i)  $\angle DGC$  (ii)  $\angle DEF$

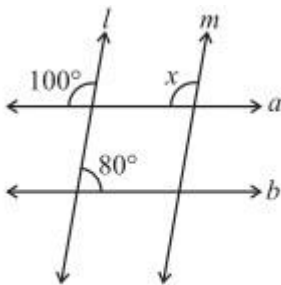


8. Find the value of  $x$  in each of the following figures if  $l \parallel m$



### Section 3

9. Find the value of  $x$  in each of the following figures if  $l \parallel m$



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10. State the property that is used in each of the following statements?

(i) If  $a \parallel b$ , then  $\angle 1 = \angle 5$ .

(ii) If  $\angle 4 = \angle 6$ , then  $a \parallel b$ .

(iii) If  $\angle 4 + \angle 5 = 180^\circ$ , then  $a \parallel b$

