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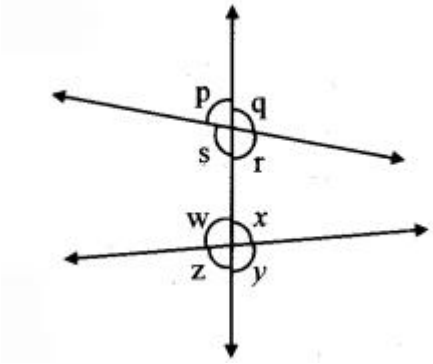
Practice Set 2.1 8th Std Maths Answers Chapter 2 Parallel Lines and Transversals

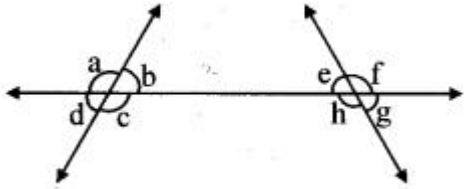
Question 1.
In the given figure, each angle is shown by a letter. Fill in the boxes with the help of the figure



Corresponding angles:
i. ∠p and __
ii. ∠q and __
iii. ∠r and __
iv. ∠s and __

Interior alternate angles:
v. ∠s and __
vi. ∠w and __
Solution:
i. ∠w
ii. ∠x
iii. ∠y
iv. ∠z
v. ∠x
vi. ∠r

Question 2.
Observe the angles shown in the figure and write the following pair of angles.



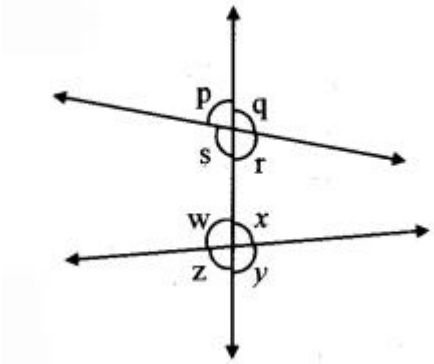
1. Interior alternate angles
2. Corresponding angles
3. Interior angles

Solution:

1. ∠c and ∠e; ∠b and ∠h
2. ∠a and ∠e; ∠b and ∠f; ∠c and ∠g; ∠d and ∠h
3. ∠c and ∠h; ∠b and ∠e

Practice Set 2.1 8th Std Maths Answers Chapter 2 Parallel Lines and Transversals

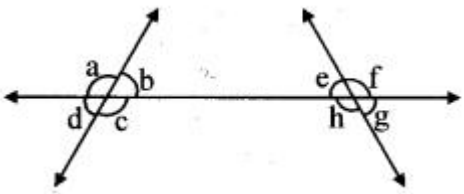
Question 1.
In the given figure, each angle is shown by a letter. Fill in the boxes with the help of the figure



Corresponding angles:
i. ∠p and __
ii. ∠q and __
iii. ∠r and __
iv. ∠s and __

Interior alternate angles:
v. ∠s and __
vi. ∠w and __
Solution:
i. ∠w
ii. ∠x
iii. ∠y
iv. ∠z
v. ∠x
vi. ∠r

Question 2.
Observe the angles shown in the figure and write the following pair of angles.



1. Interior alternate angles
2. Corresponding angles
3. Interior angles

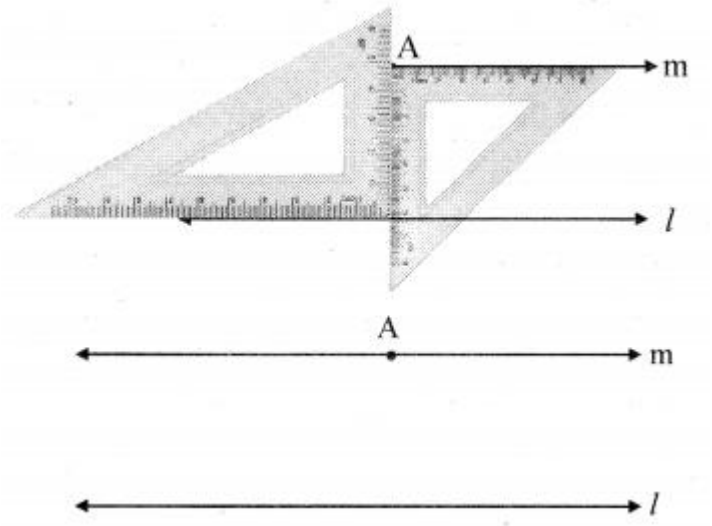
Solution:

1. ∠c and ∠e; ∠b and ∠h
2. ∠a and ∠e; ∠b and ∠f; ∠c and ∠g; ∠d and ∠h
3. ∠c and ∠h; ∠b and ∠e

Practice Set 2.3 8th Std Maths Answers Chapter 2 Parallel Lines and Transversals

Question 1.
Draw a line l. Take a point A outside the line. Through point A draw a line parallel to line l.
Solution:
Steps of construction:

1. Draw a line l and take any point A outside the line.
2. Place a set-square, such that one arm of the right angle passes through A and the other arm is on line l.
3. Place the second set-square as shown in the figure such that the vertex of the right angle is at point A.
4. Hold the two set-squares in place and draw a line parallel to line l through the edge of the second set-square. Name the line as m.

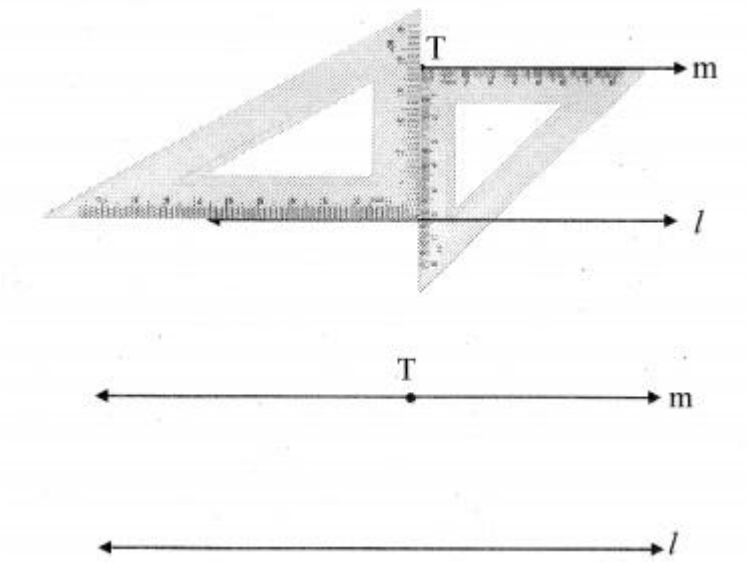


Line m is the required line parallel to line l and passing through point A.

Question 2.
Draw a line l. Take a point T outside the line. Through point T draw a line parallel to line l.
Solution:
Steps of construction:

1. Draw a line l and take any point T outside the line.

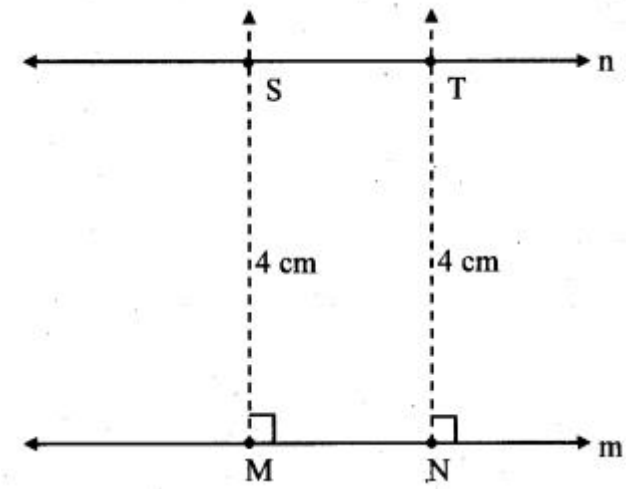
2. Place a set-square, such that one arm of the right angle passes through T and the other arm is on line l.
3. Place the second set-square as shown in the figure such that the vertex of the right angle is at point T.
4. Hold the two set-squares in place and draw a line parallel to line l through the edge of the second set-square. Name the line as m.



Line m is the required line parallel to line l and passing through point T.

Question 3.
Draw a line m. Draw a line n which is parallel to line m at a distance of 4 cm from it.
Solution:
Steps of construction:

1. Draw a line m and take any two points M and N on the line.
2. Draw perpendiculars to line m at points M and N.
3. On the perpendicular lines take points S and T at a distance 4 cm from points M and N respectively.
4. Draw a line through points S and T. Name the line as n.



Line n is parallel to line m at a distance of 4 cm from it.

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