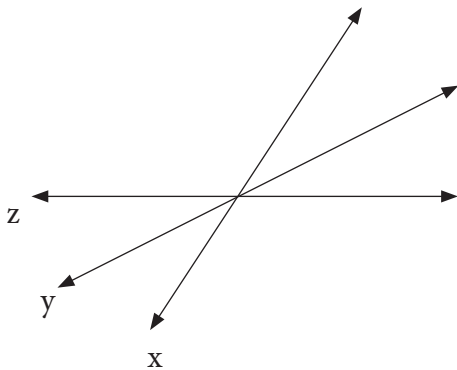


Lines and Angles

Q1. Tick the correct option:

In the figure given below, the lines x , y and z are:



- Concurrent lines
- Parallel lines
- Perpendicular lines

Q2. Points A, B and C are collinear points. Points P, Q and R are also collinear points. If A and P are also collinear is it necessary that all the points A, B, C, P, Q and R will be collinear. Explain with the help of a diagram.

Answer: _____

Q3. Fill in the blanks:

- A line segment has _____ length.
- A _____ has indefinite length and only one end point.
- _____ line(s) can pass through two given points.
- The opposite sides of a ladder represent _____ lines.

Q4. $\angle ABC$ and $\angle PQR$ are congruent. Will the reflex angle $\angle ABC$ and reflex angle $\angle PQR$ also be congruent?

Answer: _____

Q5. Match the following:

Three right angles	135°
$\frac{1}{6}$ of a right angle	204°
$\frac{3}{4}$ of a straight angle	270°
24° more than twice of a right angle	15°

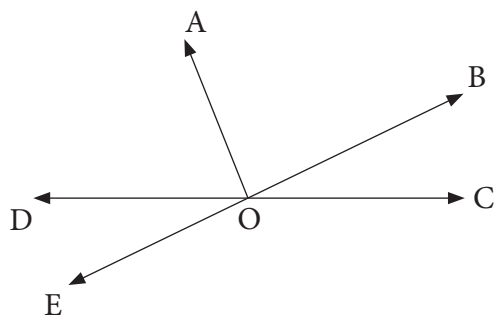
Q6. Two supplementary angles are in the ratio 3:5. Find the measure of the two angles.

Answer: _____

Q7. $\angle ABC$ is thrice of $\angle PQR$. If $\angle PQR = 39^\circ 24'$, find the measure of $\angle ABC$.

Answer: $\angle ABC =$ _____

Q8. In the given figure, $\angle AOB$ is a right angle. $\angle DOE$ is one-sixth of a straight angle. Find the measure of all the angles.



a. $\angle AOB =$ _____

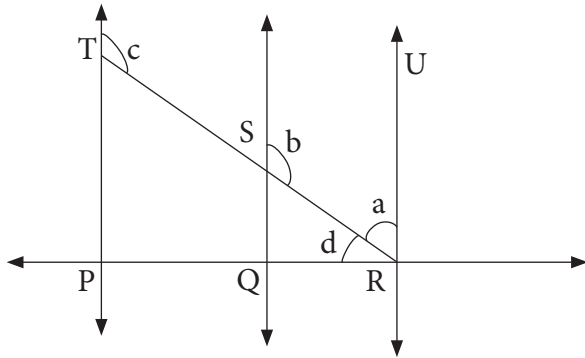
b. $\angle DOE =$ _____

c. $\angle BOC =$ _____

d. $\angle AOD =$ _____

e. $\angle EOC =$ _____

Q9. In the given figure, $PT \perp PR$ and $PT \parallel QS \parallel RU$. If RS is the angle bisector of $\angle URQ$, find a , b , c and d .



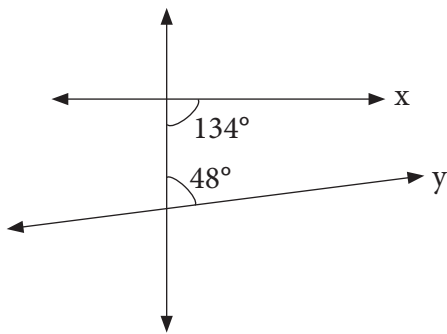
$a =$ _____

$b =$ _____

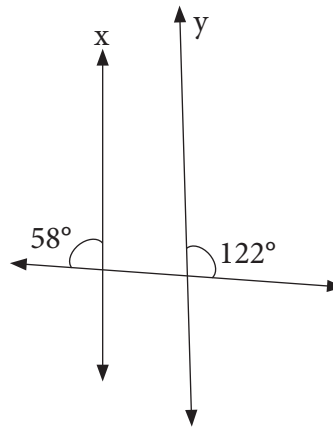
$c =$ _____

$d =$ _____

Q10. From the given figures tick the figure in which lines $x \parallel y$:



(a)

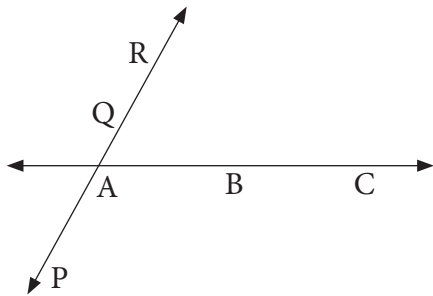


(b)

Answers

1. (a)

2. No



3. a. fixed; b. ray, c. one, d. parallel

4. Yes

5.

Three right angles	270°
$\frac{1}{6}$ of a right angle	15°
$\frac{3}{4}$ of a straight angle	135°
24° more than twice of a right angle	204°

6. 67.5° , 112.5°

7. $118^\circ 12'$

8. a. 90° ; b. 30° ; c. 30° ; d. 60° ; e. 150°

9. $a = 45^\circ$; $b = 135^\circ$; $c = 135^\circ$; $d = 45^\circ$

10. (b)