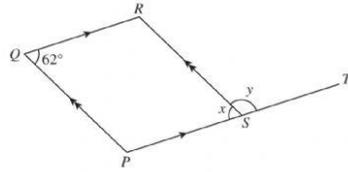


9.3 Properties of quadrilaterals and the interior and exterior angles of quadrilaterals

Find the values of x and y in each of the following.

SP9.3.2 TP3

Example

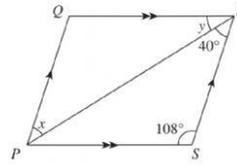


$$x = 62^\circ$$

$$y + 62^\circ = 180^\circ$$

$$y = 180^\circ - 62^\circ = 118^\circ$$

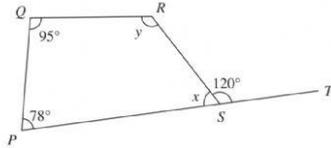
1.



$$x = \circ$$

$$y = \circ$$

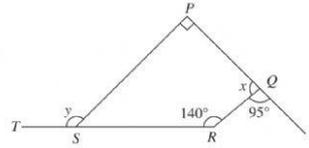
2.



$$x = \circ$$

$$y = \circ$$

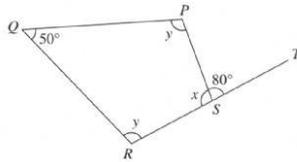
3.



$$x = \circ$$

$$y = \circ$$

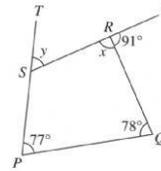
4.



$$x = \circ$$

$$y = \circ$$

5.



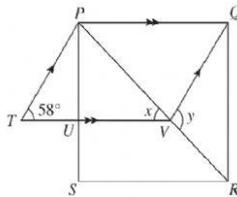
$$x = \circ$$

$$y = \circ$$

Solve the following problems.

SP9.3.3 TP4

1.

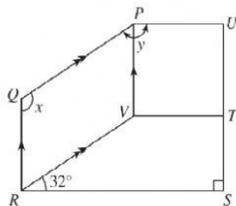


In the diagram, $PQRS$ is a square and $PQVT$ is a parallelogram. PVR is a straight line. Find the values of x and y .

$$x = \circ$$

$$y = \circ$$

2.

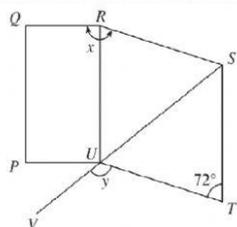


In the diagram, $PQRV$ is a parallelogram, $RSTV$ is a trapezium and $PUTV$ is a square. Find the values of x and y .

$$x = \circ$$

$$y = \circ$$

3.



In the diagram, $PQRU$ is a rectangle and $RSTU$ is a rhombus. SUV is a straight line. Find the values of x and y .

$$x = \circ$$

$$y = \circ$$