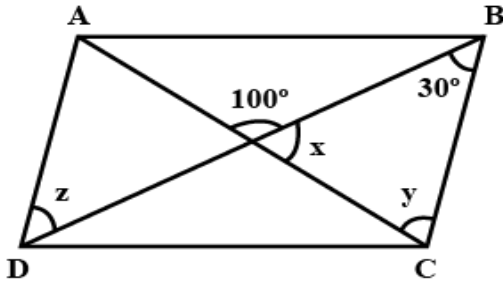


**DESCRIPTIVE TYPE (2 MARKS)**

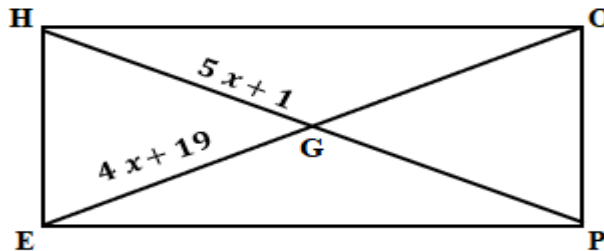
**Q.1.** Find each angles of polygon for a quadrilateral whose angles are in the ratio 3:4:5:6.

**Q.2.** ABCD is a parallelogram. Find the values of  $x$ ,  $y$  and  $z$ .



**Q.3.** Find the number of sides a polygon has if the sum of the measures of the interior angles is  $1800^\circ$ .

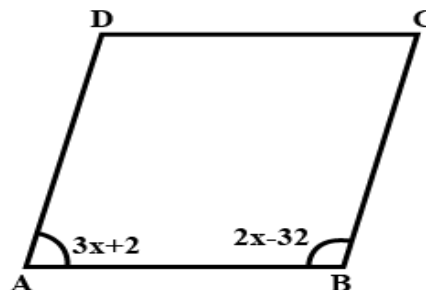
**Q.4.** In the figure, HOPE is a rectangle. Its diagonals meet at G. If  $HG = 5x + 1$  and  $EG = 4x + 19$ , find  $x$ .



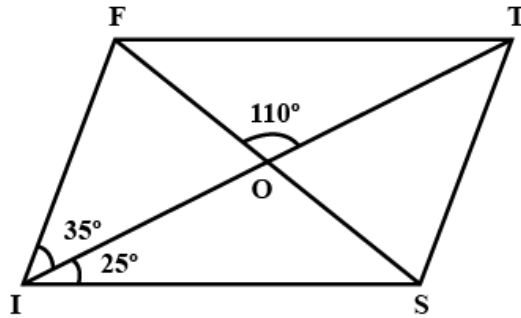
**Q.5.** Two adjacent angles of a parallelogram are in the ratio 1:3. Find its angles.

**DESCRIPTIVE TYPE (3 MARKS)**

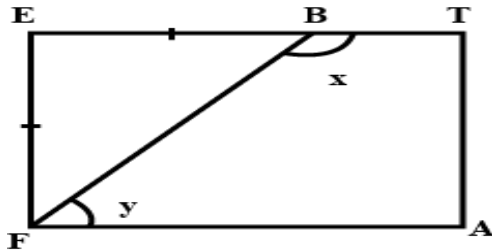
**Q.6.** In parallelogram ABCD, find  $\angle B$ ,  $\angle C$  and  $\angle D$ .



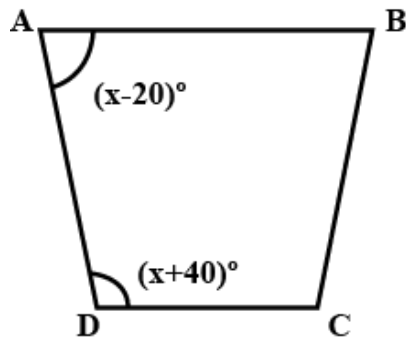
Q.7. In parallelogram FIST, find  $\angle SFT$ ,  $\angle OST$  and  $\angle STO$ .



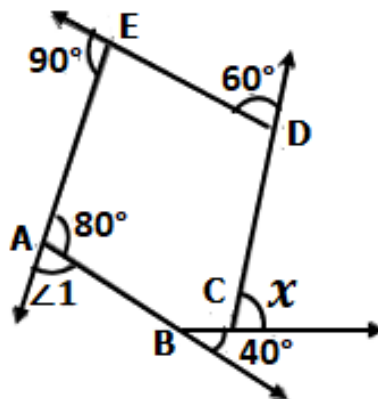
Q.8. A playground is in the form of a rectangle ATEF. Two players are standing at the points F and B where  $EF = EB$ . Find the values of  $x$  and  $y$ .



Q.9. Find the value of  $x$ ,  $\angle DAB$  and  $\angle ADC$  in the trapezium ABCD given below.

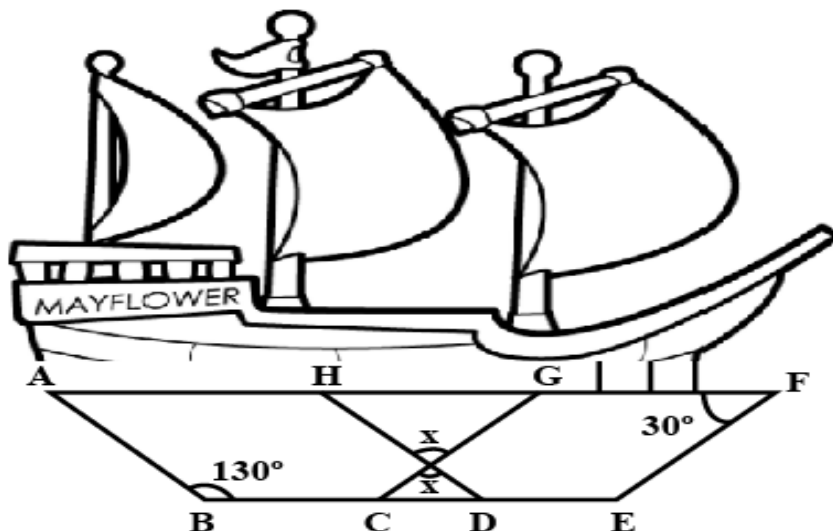


Q.10. Find the measure of  $\angle 1$  and  $x$  for the polygon.

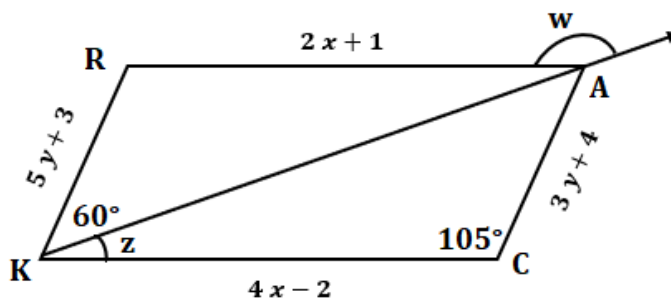


DESCRIPTIVE TYPE (4 MARKS)

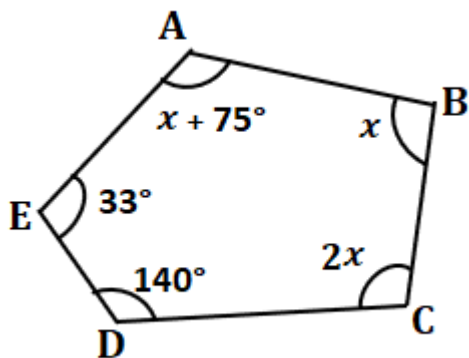
- Q.11. In the following figure of a ship, ABDH and CEFH are two parallelograms.  
Find the value of  $x$ .



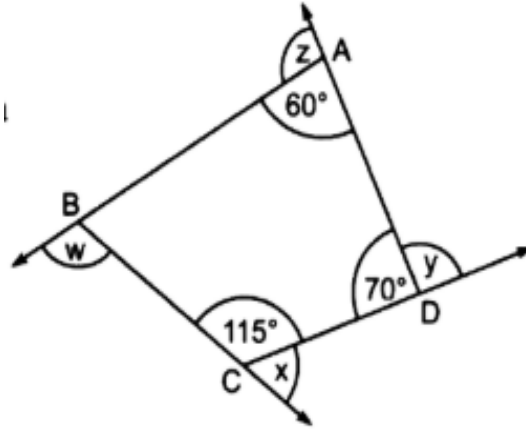
- Q.12. In the given parallelogram RACK, find the values of  $x$  and  $y$ , also the measures of  $z$  and  $w$ .



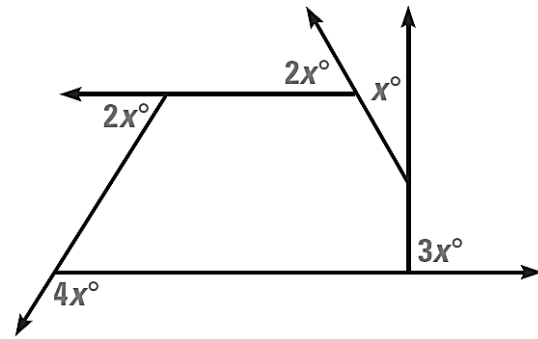
- Q.13. ABCDE is a pentagon. Find the value of  $x$  and measures of  $\angle A$ ,  $\angle B$  and  $\angle C$ .



Q.14. Find the values of  $x, y, z$  and  $w$ .



Q.15. Find all the angles of the given polygon.



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### Answers

<b>Answers</b>	<b>1</b>	$60^\circ, 80^\circ, 100^\circ, 120^\circ$	<b>2</b>	$x = 80^\circ, y = 70^\circ, z = 30^\circ$	<b>3</b>	12 sides	<b>4</b>	18
	<b>5</b>	$45^\circ, 135^\circ$	<b>6</b>	$A = 128^\circ = C$ $B = 52^\circ = D$	<b>7</b>	$\angle SFT = \angle OFT = 45^\circ$ $\angle OST = 75^\circ$ and $\angle STO = 35^\circ$ .	<b>8</b>	$x = 135^\circ$ $y = 45^\circ$
	<b>9</b>	$x = 80^\circ$ , $\angle DAB = 60^\circ$ , $\angle ADC = 120^\circ$	<b>10</b>	$\angle 1 = 100^\circ, x = 70^\circ$	<b>11</b>	$x = 100^\circ$	<b>12</b>	$x = 1.5$ $y = 0.5$ $w = 165^\circ$ $z = 15^\circ$
	<b>13</b>	$x = 73^\circ, \angle A = 148^\circ$ , $\angle B = 73^\circ$ and $\angle C = 146^\circ$ .	<b>14</b>	$x = 65^\circ, y = 110^\circ$ $w = 65^\circ, z = 120^\circ$	<b>15</b>	$30^\circ, 60^\circ, 60^\circ, 120^\circ$ , $90^\circ$		