FREE NCERT SOLUTIONS

CLASS - 8

UNDERSTANDING QUADRILATERALS

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EXERCISE 3.1 - Question No. 6

Find the angle measure x in the following figures.

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EXERCISE 3.1 - Question No. 7

(a) Find $x + y + z$ (b) Find $x + y + x + w$

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EXERCISE 3.2 - Question No. 1

Find x in the following figures.

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EXERCISE 3.2 - Question No. 2

Find the measure of each exterior angle of a regular polygon of (i) 9 sides (ii) 15 sides

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EXERCISE 3.2 - Question No. 3

How many sides does a regular polygon have if the measure of an exterior angle is 24 ?

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EXERCISE 3.2 - Question No. 4

How many sides does a regular polygon have if each of its interior angles is 165 ?

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EXERCISE 3.2 - Question No. 5

(a) Is it possible to have a regular polygon with measure of each exterior angle as 22 ? b) Can it be an interior angle of a regular polygon? Why?

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EXERCISE 3.2 - Question No. 6

(a) What is the minimum interior angle possible for a regular polygon? Why? (b) What is the maximum exterior angle possible for a regular polygon?

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EXERCISE 3.3 - Question No. 1

Given a parallelogram $ABCD$. Complete each statement along with the definition or property used. (i) $AD =$ (ii) $< DCB =$ (iii) $OC =$ (iv) $m < DAB + m < CDA$

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EXERCISE 3.3 - Question No. 2

Consider the following parallelograms. Find the values of the unknowns x, y, z.

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EXERCISE 3.3 - Question No. 3

Can a quadrilateral $ABCD$ be a parallelogram if (i)

$< D + < B = 180$? (ii)

$AB = DC = 8cm, AD = 4cm$ and $BC = 4.4cm$? (iii)

$A = 70^{\text{and}} < C = 65$?

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EXERCISE 3.3 - Question No. 5

The measures of two adjacent angles of a parallelogram are in the ratio 3 : 2. Find the measure of each of the angles of the parallelogram.

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EXERCISE 3.3 - Question No. 6

Two adjacent angles of a parallelogram have equal measure. Find the measure of each of the angles of the parallelogram.

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EXERCISE 3.3 - Question No. 7

The adjacent figure HOPE is a parallelogram. Find the angle measures x, y and z. State the properties you use to find them.

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EXERCISE 3.3 - Question No. 8

The following figures GUNS and RUNS are parallelograms. Find x and y. (Lengths are in cm)

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EXERCISE 3.3 - Question No. 9

In the above figure both RISK and CLUE are parallelograms. Find the value of x.

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EXERCISE 3.3 - Question No. 10

Explain how this figure is a trapezium. Which of its two sides are parallel? (Fig 3.32)

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EXERCISE 3.3 - Question No. 11

Find $m\angle C$ in fig 3.33 if $AB \mid\mid DC$

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EXERCISE 3.3 - Question No. 12

Find the measure of c $< P$ and $< S$ if $\overrightarrow{SP} \mid\mid \overrightarrow{RQ} \in$ Fing 3.34.

(If you find $m < R,$ is there m or ethano $\neq$ method of find $m < p$

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SOLVED EXAMPLES - Question No. 1

Find measure x in Fig 3.9.

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SOLVED EXAMPLES - Question No. 2

Find the number of sides of a regular polygon whose each exterior angle has a measure of 45 .

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SOLVED EXAMPLES - Question No. 3

Find the perimeter of the parallelogram PQRS (Fig 3.22).

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SOLVED EXAMPLES - Question No. 4

In Fig 3.26, BEST is a parallelogram. Find the values x, y and z.

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SOLVED EXAMPLES - Question No. 6

In Fig 3.31 HELP is a parallelogram. (Lengths are in cms). Given that $OE = 4$ and HL is 5 more than PE? $F \in d$OH.`

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SOLVED EXAMPLES - Question No. 7

RICE is a rhombus (Fig 3.36). Find x, y, z. Justify your findings.

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SOLVED EXAMPLES - Question No. 8

RENT is a rectangle (Fig 3.41). Its diagonals meet at O. Find x, if $OR = 2x + 4$ and $OT = 3x + 1$

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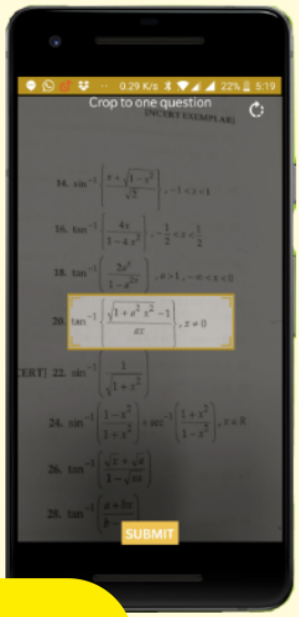

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