

Ques No.	Question
1	<p>NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - EXERCISE 7.1 - Q 1</p> <p>Complete the following statements: (a) Two line segments are congruent if. (b) Among two congruent angles, one has a measure of 70°; the measure of the Other angle is. (c) When we write $A = B$, we actually mean.</p> <p>Watch Free Video Solution on Doubtnut</p>
2	<p>NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - EXERCISE 7.1 - Q 2</p> <p>Give any two real-life examples for congruent shapes</p> <p>Watch Free Video Solution on Doubtnut</p>
3	<p>NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - EXERCISE 7.1 - Q 3</p> <p>If $\triangle ABC \cong \triangle FED$ under the correspondence $ABC \leftrightarrow FED$, write all the corresponding congruent parts of the triangles.</p> <p>Watch Free Video Solution on Doubtnut</p>
4	<p>NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - EXERCISE 7.1 - Q 4</p> <p>If $\triangle DEF \cong \triangle BCA$, write the part (s) of $\triangle BCA$ that correspond to (i) $\angle E$ (ii) \overline{EF} (iii) $\angle F$ (iv) \overline{DF}</p> <p>Watch Free Video Solution on Doubtnut</p>
	<p>NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - EXERCISE 7.2 - Q 1</p> <p>Which congruence criterion do you use in the following? (a) Given:</p>

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$AC = DFAB$
 $= DEBC$
 $= EFSO, \Delta ABC$
 $\cong \Delta DFE$
 (b) Given
 $ZX = RPRQ$
 $= ZY? < PQR =$
 $< XYZSo, \Delta PRQ$
 $\cong ?] \Delta XYZ$
 (c) Given: ??
 $< MLN =$
 $< FGHML = FG$
 So, (d) Glven:
 $EB = DBAE$
 $= BC? < A =$
 $< C90^\circ So,$
 $\Delta ABE[_ \cong ?]$
 ΔCDB

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You want to show that

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 ΔART [\cong ?] ΔPEN ,

(a) If you to use SSS criterion, then need to show (i)AR(ii)RT(iii)AT
 (b) If it is given $\angle T = \angle N$ and $you are \rightarrow use SAS$
 criterion, you $\neq ed$

 $\rightarrow have(i)$

RT and (ii)PN (c) If it is given $\angle A = \angle P$ and $you are \rightarrow use ASA$ criterion, you need to have (i) ? (ii) ?

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You have to show that . In the following proof, supply the missing reasons

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In

 ΔABC , $\angle A = 30^\circ$, $\angle B = 40^\circ$ and $\angle C$ $= 110^\circ$

In

 ΔPQR , $\angle P = 30^\circ$, $\angle Q = 40^\circ$ and $\angle R$ $= 100^\circ$

A student says that

 $\Delta ABC \cong \Delta PQR$ and ΔPQR by $\forall A$ Congruence criterion. Is he justified ? Why or why not ?

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NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - EXERCISE 7.2 - Q 5

In the figure, the two triangles are congruent. The corresponding parts are marked. We can write $\Delta R \cong \Delta T$?

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NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - EXERCISE 7.2 - Q 6

Complete the congruence statement : $\Delta B \cong \Delta A$?

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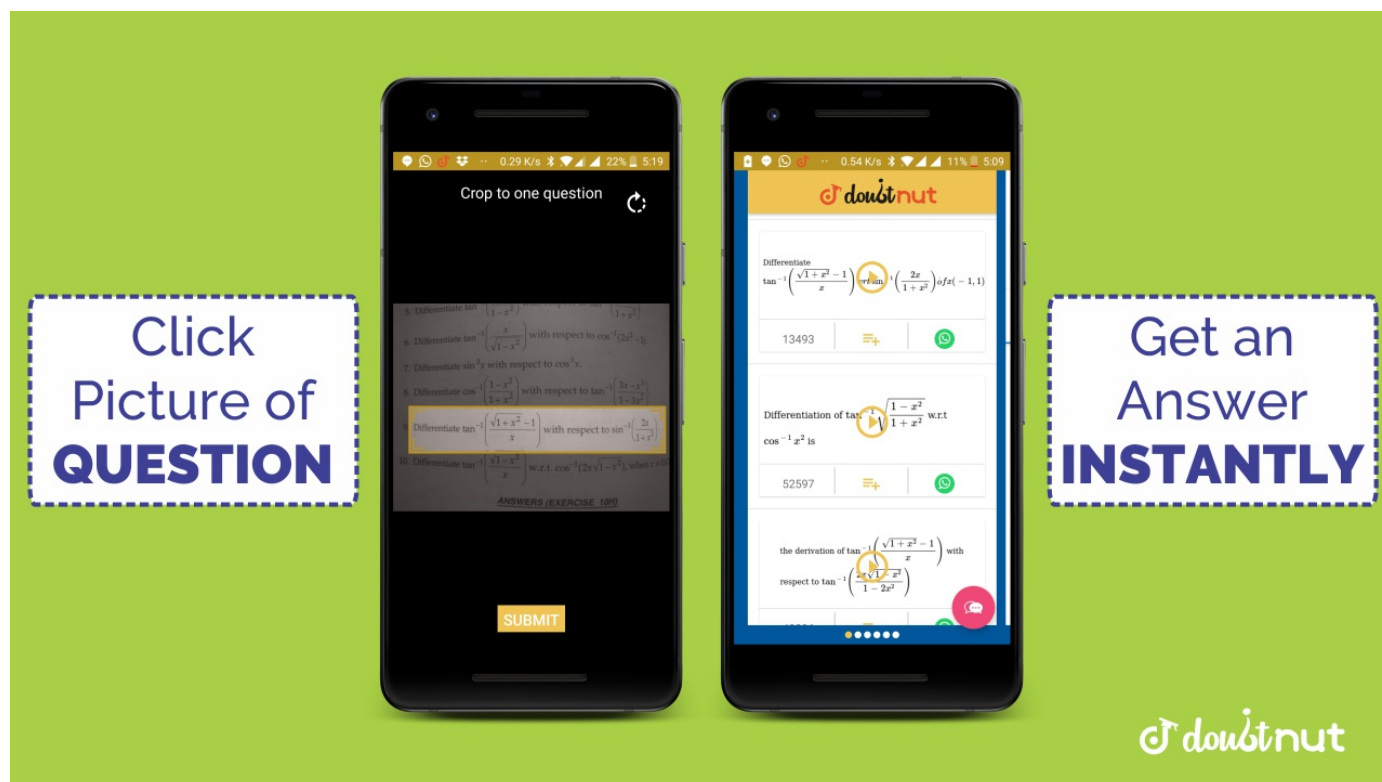
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- Q 7

In a squared sheet, draw two triangles of equal areas such that (i) the triangles are congruent. (ii) the triangles are not congruent. What can you say about their perimeters?

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NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - EXERCISE 7.2 - Q 9

If $\triangle ABC$ and $\triangle PQR$ are to be congruent, name one additional pair of corresponding parts. What criterion did you use ?

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NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - EXERCISE 7.2 - Q 10

Explain, why
 $\triangle ABC \cong \triangle FED$

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NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - SOLVED EXAMPLES - Q 1

$\triangle ABC$ and $\triangle PQR$ are congruent under the correspondence : $ABC \rightarrow RQP$
 write the parts of $\triangle ABC$ that correspond to ? (i) $\angle P$ (ii) $\angle Q$ (iii) \overline{Rp}

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NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - SOLVED EXAMPLES - Q 2

In triangles

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ABC and PQR ,
 $AB = 3.5\text{cm}$, BC
 $= 7.1\text{cm}$, AC
 $= 5\text{cm}$, PQ
 $= 7.1\text{cm}$, QR
 $= 5\text{cm}$ and PR
 $= 3.5$.

Examine whether the two triangles are congruent or not. If yes, write the congruence relation in symbolic form.

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NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - SOLVED EXAMPLES - Q 3

In fig 7.13,
 $AD = CD$ and AB
 $= CB$.

(i) state the three pairs of equal in $\triangle ABD$ and $\triangle CBD$

(iii) Is $\triangle ABD \cong \triangle CBD$?

$\triangle CBD$

? Why or why not ? (iii) Does BD bisect $\angle ABC$? Given reasons

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NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - SOLVED EXAMPLES - Q 4

Given below are measurements of some parts of two triangles. Examine whether the two triangles are congruent or not, by using SAS congruence rule. If the triangles are congruent, write them in symbolic form. $\triangle DEF$

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find the equation of tangent to the curve 'x=a' (th...

Find the equation of tangent to the curve 'x=a' (th...

Find the equation of tangent to the curve 'y=sin^(-1...

If '3x+y=0' is a tangent to a circle whose center is '...

Find the equation of tangent to 'y=int_(x^2)^(x^3)(L...

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NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - SOLVED

18	<p>EXAMPLES - Q 5</p> <p>In Fig 7.23, $AB = AC$ and AD is the bisector of $\angle BAC$. (i) State three pairs of equal parts in triangles ADB and ADC. (ii) Is $\triangle ADB \cong \triangle ADC$? Given reasons. (iii) Is $\angle B = \angle C$? Given reasons</p> <p>▶ Watch Free Video Solution on DoubtNut</p>
19	<p>NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - SOLVED EXAMPLES - Q 6</p> <p>By applying ASA congruence rule, it is to be established that $\triangle ABC \cong \triangle QRP$ and it is given that $BC = RP$. What additional information is needed to establish the congruence?</p> <p>▶ Watch Free Video Solution on DoubtNut</p>
20	<p>NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - SOLVED EXAMPLES - Q 7</p> <p>In Fig 7.26, can you use ASA congruence rule and conclude that $\triangle AOC \cong \triangle BOD$?</p> <p>▶ Watch Free Video Solution on DoubtNut</p>
21	<p>NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - SOLVED EXAMPLES - Q 8</p> <p>Given below are measurements of some parts of two triangles. Examine whether the two triangles are congruent or not, using RHS congruence rule. In case of congruent triangles, write the result in symbolic form</p> <p>▶ Watch Free Video Solution on DoubtNut</p>
22	<p>NCERT - CLASS 7 - CHAPTER 7 CONGRUENCE OF TRIANGLES - SOLVED EXAMPLES - Q 9</p> <p>In Fig 7.31, $DA \perp AB, CB \perp AB$ and $AC = BD$</p> <p>. State the three pairs of equal parts in $\triangle ABC$ and $\triangle DAB$. Which of the following statements is meaningful? (i) $\triangle ABC \cong \triangle BAD$ (ii)</p>

$$\Delta ABC [_ \cong ?] ABD$$

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