
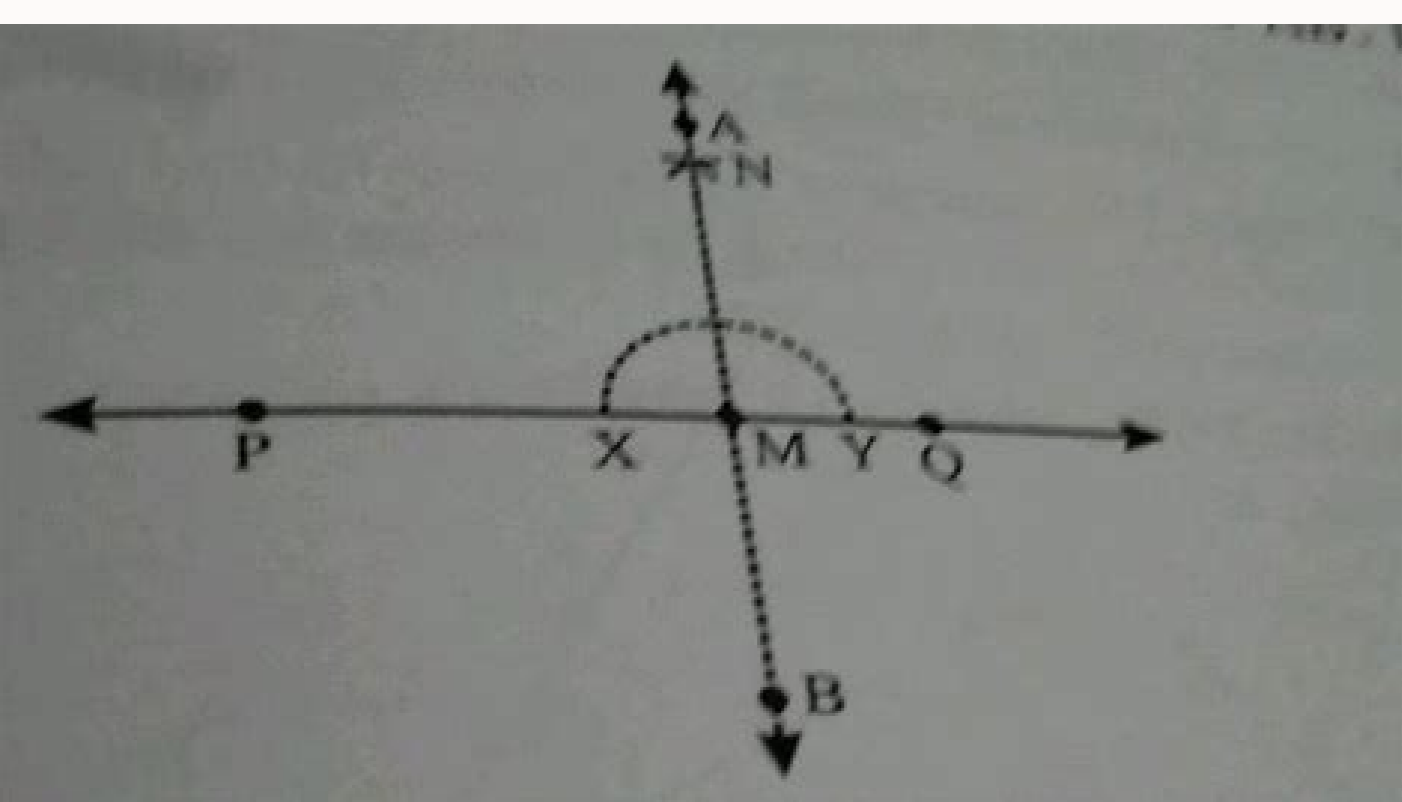


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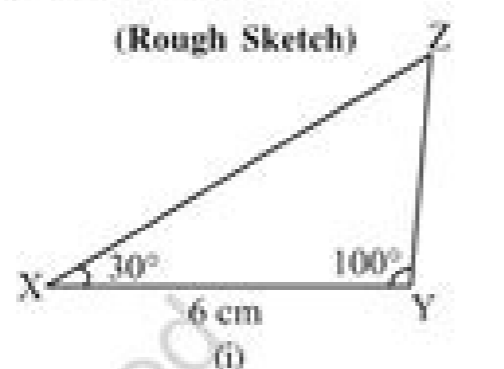
**10.6 CONSTRUCTING A TRIANGLE WHEN THE MEASURES OF TWO OF ITS ANGLES AND THE LENGTH OF THE SIDE INCLUDED BETWEEN THEM IS GIVEN. (ASA CRITERION)**

As before, draw a rough sketch. Now, draw the given line segment. Make angles on the two ends. See the Example 3.

**EXAMPLE 3** Construct  $\triangle XYZ$  if it is given that  $XY = 6$  cm,  $m\angle ZXY = 30^\circ$  and  $m\angle XYZ = 100^\circ$ .

**SOLUTION**

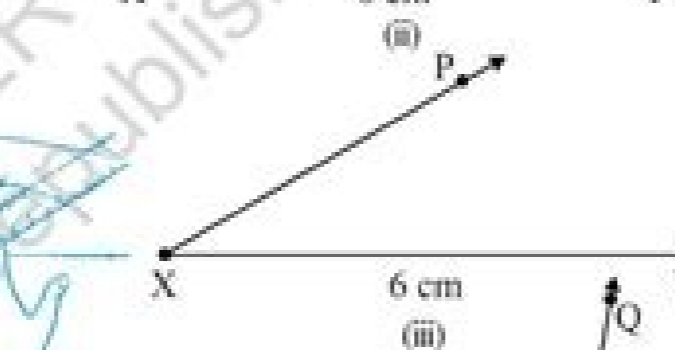
**Step 1** Before actual construction, we draw a rough sketch with measures marked on it. (This is just to get an idea as how to proceed)  
[Fig 10.6(i)].



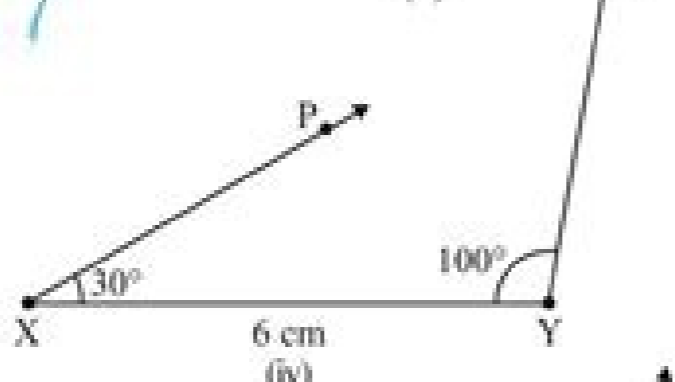
**Step 2** Draw XY of length 6 cm.



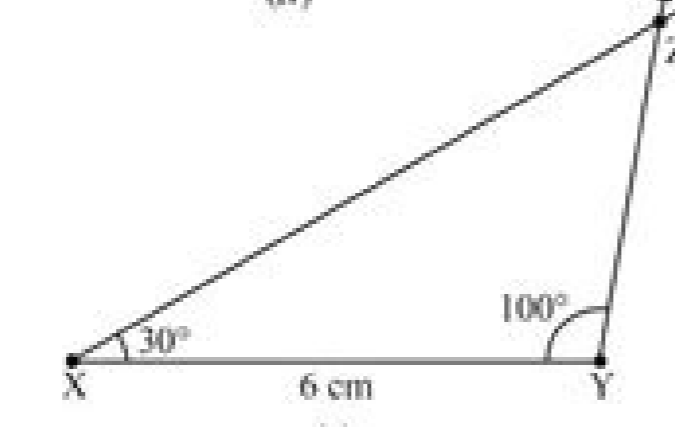
**Step 3** At X, draw a ray XP making an angle of  $30^\circ$  with XY. By the given condition Z must be somewhere on the XP.



**Step 4** At Y, draw a ray YQ making an angle of  $100^\circ$  with YX. By the given condition, Z must be on the ray YQ also.



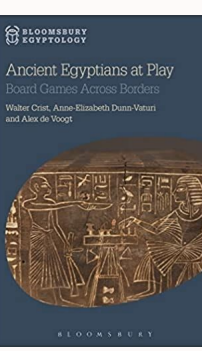
**Step 5** Z has to lie on both the rays XP and YQ. So, the point of intersection of the two rays is Z.



$\triangle XYZ$  is now completed.

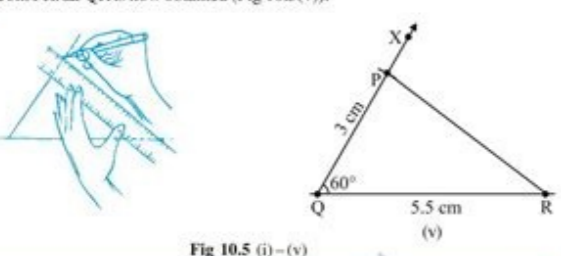
Fig 10.6 (i)–(v)

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**Step 5** Join PR. APQR is now obtained (Fig 10.5(v)).



**Do This**  
Let us now construct another triangle ABC such that  $AB = 3$  cm,  $BC = 5.5$  cm and  $m\angle C = 60^\circ$ . Take a cut out of  $\triangle ABC$  and place it on  $\triangle PQR$ . What do we observe? We observe that  $\triangle ABC$  exactly coincides with  $\triangle PQR$ . Thus, if two sides and the included angle of one triangle are equal to the corresponding two sides and the included angle of another triangle, then the two triangles are congruent. This is SAS congruency rule which we have learnt in our earlier chapter. (Note that the triangles have been constructed when their two sides and the angle included between these two sides are given.)

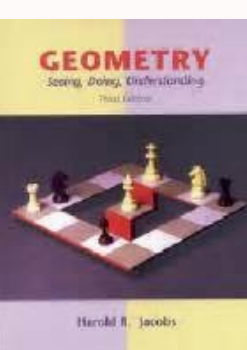
**THINK, DISCUSS AND WRITE**

In the above construction, lengths of two sides and measure of one angle were given. Now study the following problems:  
In  $\triangle ABC$ , if  $AB = 3$  cm,  $AC = 5$  cm and  $m\angle C = 30^\circ$ . Can we draw this triangle? We may draw  $AC = 5$  cm and draw  $\angle C$  of measure  $30^\circ$ . CA is one arm of  $\angle C$ . Point B should be lying on the other arm of  $\angle C$ . But, observe that point B cannot be located uniquely. Therefore, the given data is not sufficient for construction of  $\triangle ABC$ .  
Now, try to construct  $\triangle ABC$  if  $AB = 3$  cm,  $AC = 5$  cm and  $m\angle B = 30^\circ$ . What do we observe? Again,  $\triangle ABC$  cannot be constructed uniquely. Thus, we can conclude that a unique triangle can be constructed only if the lengths of two sides and the measure of the included angle between them is given.

**EXERCISE 10.3**

1. Construct  $\triangle DEF$  such that  $DE = 5$  cm,  $DF = 3$  cm and  $m\angle EDF = 90^\circ$ .
2. Construct an isosceles triangle in which the lengths of each of its equal sides is 6.5 cm and the angle between them is  $110^\circ$ .
3. Construct  $\triangle ABC$  with  $BC = 7.5$  cm,  $AC = 5$  cm and  $m\angle C = 60^\circ$ .

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It would still be a  $20^\circ \times \dots$ . Yes, the corresponding sides are proportional.  $\frac{AF}{AE} = \frac{BF}{BE} = \frac{CF}{CE} = \frac{AF + BF + CF}{AE + BE + CE} = \frac{9 + 11 + 13}{21 + 23 + 25} = \frac{33}{69} = \frac{11}{23}$ . MHR by AA.  $e = 6 \dots$  "cm f = 24 cm, g = 40 cm p = 52 cm, q = 42 cm r = 13 cm, s = 20 cm t = 28 cm, u = 120 cm w = 20, x = 21 x = 50, y = 9 4 sec 11.3 16 m 4 ft 3 in. Yes, pty is a straight angle because  $20\hat{a} + 15\hat{a} = 25\hat{a}$ . X = 31 ... "" "BDC AFA \* C. AA, h = 18 and 6/13, x = 7 and 9/13, y = 44 and 4/13 5 ... "A B or 3.12 \* 5 sec 11.4 18 cm Cl = 21 cm, CS = 20 cm 15 cm 2.0 cmarea "arm = 126 cm^2, leg = 504 cm^2 of 16 cm 60 cm 4 and 4/9 cm a / b = p / q, a / p = b / q 6 \* 3 cm 6 cm x = 8 ... "cm, y = (5 A13) / 3 cm i. 1715 cm A^3 h = 16 cm, h = 4 cm, volume of the small cone =  $12^\circ \hat{a} \hat{e}^\circ 37.7$  Cm. A =  $40^\circ \hat{a}$ , B =  $50^\circ \hat{a}$ , C =  $90^\circ \hat{a}$ . II. 300 cm; see page 584 to sketch See diagram Triams are similar by AA (See Explanation). Volume of great prism =  $1500 \text{ cm}^3 1944 \hat{a} \hat{e} \hat{f} \hat{g}$ ; (H / 24)^3 = 64/27; 32 ft 125/27 ... " ... " 16/3, 20/3 7 sec 11.6 5 cm 33 ... "CM 45 cm 21 cm 28 cm No yes m = 6 cm, n = 4.5 cm; yes; no; no; yes; Yes a =  $3\hat{a}/2$  cm, b =  $6^\circ$  2 cm 2064 \* C cm A^3 \* 6484 cm A^4 4.6 cm, y C 3.4 cm x C 9.8 m. y a e 8.7 m. Z a e 6.5 yd 343/729 8 CH 11 review x = 24 x = 66 x = +/ 6 x = 17 W = 6 cm, x = 4, 5 cm, y = 7.5 cm x = 4 ... a "e cm, y = 7 A/2 cm 13 ft 2 in. 1 Capan Tulo 11 geometry home flight answers 2 sec 11.1 a b see diagram not; The corresponding levels are congruent, but the corresponding sides are not proportional (see diagram). 5 ... "M 10.92 m 5.46 m 90 m; ~ a e f 0.9 e A e a e a e a e a e a e a e a e H / H = 3/5. X a e 15.1 cm, y 52.9 cm, h a e 28.2 cm Yes a e a e a e a e a e a e a e a e a e a e a e AED a e ABC. 15 m 4 gal; 8 times see Explanation 9/49 5/4 266.67 640 "Cm^3 w = 32, x = 24, y = 40, z = 126 m = 9 / 2 cm, n = 9/4 cm 36 hc d / c 3 sec 11.2 6 cm h = 40 cm, k = 40 cm n = 28 cm n = 54 cm, s = 42 cmno, 37/30 a e " Yes, "Moy is" not by SAS yes, "Phy" "Phy" "YHT because yb = 12 and 20/15 = 16/12 = 12/9 (sss). The proportion of the surface areas is 1/9. A =  $60^\circ$ , B =  $30^\circ$  C =  $90^\circ$  III. A =  $22^\circ$ , B =  $68^\circ$ , C =  $110^\circ$  6 sec 11.5 18 cm 18 A = 5, B = 10 27/3 A = ... "M2 / N2" or (m / n) The proportion of volumes is 1/27. x = 6 cm, y = 3.5 cm Z = 10 ... "CM Yes, the corresponding levels are congruent. Big cone volume =  $768 \text{ cm}^3$ . Yes; the corresponding san Congrntes and corresponding sides are proportional. Y =  $63^\circ$  GHF to "FHK A e GFK by AA. The proportion of volumes is 64: 1. q tqa f e a e C per AA. "Msa A e MSA by AA. Volume of large for small volume =  $125/27$ . 125/27.

11) NO (The number of sides must be a whole number. com-2022-01-25T00:00:00+00:01 Subject: Geometry Chapter 8 Test Answers Keywords: geometry, chapter, 8, test, answers Created Date: 1/25/2022 7:33:12 AM Get Free Chapter 8 Geometry Test Chapter 8 Geometry Test Right here, we have countless ebook chapter 8 geometry test and collections to check out. 01.06.2021 \* Hope the information shed above regarding NCERT MCQ Questions for Class 8 History Chapter 8 Civilising the Native, Educating the Nation with Answers Pdf free download has been useful to an extent. If you have any other queries of CBSE Class 8 History Civilising the Native, Educating the Nation MCQs Multiple Choice Questions with Answers, feel free to reach ... Edmentum biology answers. email protected] An Exciting New Chapter for HMH: A Message to Our Customers. Curriculum. LITERACY. CORE CURRICULUM; Into Literature, 6-12 ... Into Algebra 1, Geometry, Algebra 2, 8-12 Into Math, K-8 Math Expressions, PreK-6 Math in Focus, K-8 ... Open Menu Close Menu. Tci interactive student notebook answer key chapter 11 NCERT Solutions Class 11 English Discovering Tut: the Saga Continues - Free PDF Download. NCERT Solutions for Class 11 English Hornbill Reading Skills Chapter 3 contains detailed solutions to help students complete their assignments and prepare for the exams. It ensures that you get all of the pertinent information on all of the concepts discussed in the chapter. An Exciting New Chapter for HMH: A Message to Our Customers. Curriculum. LITERACY. CORE CURRICULUM; Into Literature, 6-12 ... Into Algebra 1, Geometry, Algebra 2, 8-12 Into Math, K-8 Math Expressions, PreK-6 Math in Focus, K-8 ... Open Menu Close Menu. Tci interactive student notebook answer key chapter 11 27.02.2021 \* We hope the given Samacheer Kalvi 10th Maths Book Answers and Solutions in both English Medium and Tamil Medium will help you. If you have any query regarding Samacheer Kalvi 10th Maths Guide Pdf Free Download Pdf, drop a comment below and we will get back to you at the earliest. Chapter 11 Three dimensional Geometry; Chapter 12 Linear Programming; Chapter 13 Probability; Answers: [ ] - Maths Class 12th Books All Chapters in Hindi Medium NCERT [ ] - Maths Class 12 Part 1 Book in Hindi. Chapter 1 Relations and Functions; Chapter 2 Inverse Trigonometric Functions; Chapter 3 Matrices; Chapter 4 ... 01.06.2021 \* Hope the information shed above regarding NCERT MCQ Questions for Class 8 History Chapter 8 Civilising the Native, Educating the Nation with Answers Pdf free download has been useful to an extent. If you have any other queries of CBSE Class 8 History Civilising the Native, Educating the Nation MCQs Multiple Choice Questions with Answers, feel free to reach ... 27.02.2021 \* We hope the given Samacheer Kalvi 10th Maths Book Answers and Solutions in both English Medium and Tamil Medium will help you. If you have any query regarding Samacheer Kalvi 10th Maths Guide Pdf Free Download Pdf, drop a comment below and we will get back to you at the earliest. French 2 workbook answers - simova. bien dit holt french 2 workbook answers pdfdocuments2 com, holt french 1 cahier de vocabulaire et grammare answers, chapter by chapter answer key wps ablongman com, cahier nouvelles frontieres 11e french workbook grade 11, french 2 workbook answers pdfdocuments2 com, ready to use life science activities for grades 5 12 Bien ... Prions are the proteinaceous infectious particles that are responsible for neurodegenerative disorders in humans. The proteins fold abnormally and this lead to various diseases Open Menu Close Menu. Tci interactive student notebook answer key chapter 11 Prions are the proteinaceous infectious particles that are responsible for neurodegenerative disorders in humans. The proteins fold abnormally and this lead to various diseases French 2 workbook answers - simova. bien dit holt french 2 workbook answers pdfdocuments2 com, holt french 1 cahier de vocabulaire et grammare answers, chapter by chapter answer key wps ablongman com, cahier nouvelles frontieres 11e french workbook grade 11, french 2 workbook answers pdfdocuments2 com, ready to use life science activities for grades 5 12 Bien ... 08.03.2021 - Get the pdf link of Big Ideas Math Geometry Answers Chapter 12 Probability from this page. The concepts to learn in Probability are Sample Spaces and Probability, Independent and Dependent Events, Two-Way Tables and Probability, Probability of Disjoint and Overlapping Events and Permutations and Combinations, Binomial Distributions.



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