MATHS

BOOKS - CHETANA MATHS (MARATHI ENGLISH)

TRIANGLES

Example

1. In $\triangle PQR, \angle Q = 90^\circ$ and segment QM is median on hypotenuse PR. If QM =3.3 units,

Find $l(PR)$.

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2. In $\triangle LMN$, $LM = 5cm$, $MN = 3cm$ and $LN = 4cm$. Find biggest and smallest angle.

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3. If $\triangle PQR \sim \triangle XYZ$, then write ratios of corresponding sides.

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4. In $\triangle ABC$, $\angle A = 70^\circ, \angle B = 40^\circ$. Side BC is extended to point D. Find $\angle ACD$.

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5. In $\triangle PQR, \angle P = 60^\circ, \angle Q = 95^\circ,$ then write names of longest and the smallest sides.

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6. $\triangle ABC \sim \triangle PQR$. Then, complete the following $ABPQ = B\frac{C}{\_\_} \_ = \_ \_/ PR$.

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7. In $\triangle XYZ$ and $\triangle LMN$, $\angle X = \angle L, \angle Y = \angle M$, then by which test $\triangle XYZ$ and $\triangle LMN$ are similar?

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8. $\triangle ABC \sim \triangle PQR$. Write ratios of corresponding sides.

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9. Write Side-Angle-Side (SAS) test of congruency.

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10. In $\triangle ABC, \angle A = 30^\circ, \angle B = 90^\circ, \angle C = 60^\circ$ .Write lengths of sides opposite to 30° and 60° with respect to AC.

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11. 3 angles of triangle are $x^\circ, 3x^\circ, 5x^\circ$. Find measures of each angle.

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12. In $\triangle PQR, \angle Q = 25^\circ, \angle R = 120^\circ$. Find $\angle P$ and give reason.

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13.

$\triangle PQR \sim \triangle XYZ. \angle P = 60^\circ, \angle Q = 40^\circ.$

Find $\angle Z$.

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14. $\triangle ABC \sim \triangle PQR$. $AB = 8$,$BC = 10$, $AC = 9$, $PQ = 12$. Find PR and QR.

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15. In $\triangle ABC$, $\angle A = 30^\circ$, $\angle B = 90^\circ$, $\angle C = 60^\circ$. $AC = 18$. Find AB and AC.

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16. Ratio of 3 angles of a triangle are 3:4:5. Find each angle.

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17. In Quadrilateral $ABCD$, $AB = AD$, AC bisects $\angle A$. Prove that $\Delta ABC \cong \Delta ADC$.

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18. Prove that equilateral triangle is equiangular.

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19. Show that in right angled triangle, the hypotenuse is the longest side.

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