



MATHS

BOOKS - V PUBLICATION

TRIGONOMETRY

Question Bank

1. In the triangle shown, what is the perpendicular distance from the top vertex to the bottom side?

What is the area of the triangle?

'(##VPU_TTT_MAT_X_P01_C05_E01_001_Q01##)'



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2. In each of the following parallelograms, find the distance between the top and bottom side? Calculate the area of each parallelogram.

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3. A rectangular board is to be cut along the diagonal and the pieces rearranged to form an equilateral triangle, and the sides of the triangle

must. be 50 centimetres. What should be the length and breadth of the rectangle?



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4. Two rectangles are cut along the diagonal and the triangles got are to be joined to another rectangle to make a regular hexagon as shown below:

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If the sides of the hexagón are 30 . centimetres, what would be the length and breadth of the rectangles?



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5. Calculate the area of the triangle shown.

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6. The diagonal of a square is '4 cm' long. Find

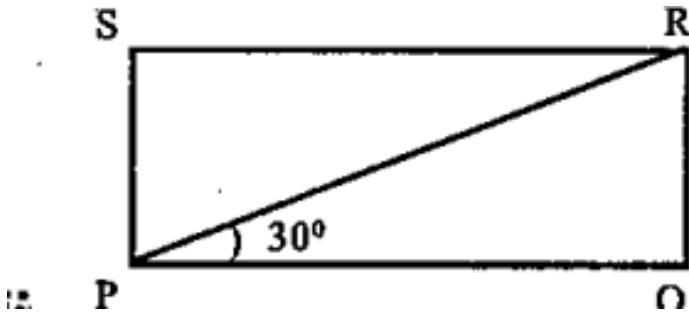
a) its perimeter?

b) its area?



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7. PQRS is a rectangle. Find angle SP R ? Find angle P R Q. If PR=30 then find P Q and QR . Calculate the perimeter of the rectangle.



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8. Calculate the

a) perimeter and

b) area of the triangle

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9. In $\triangle ABC$, $AB = 10\text{cm}$, $AC = 8\text{cm}$

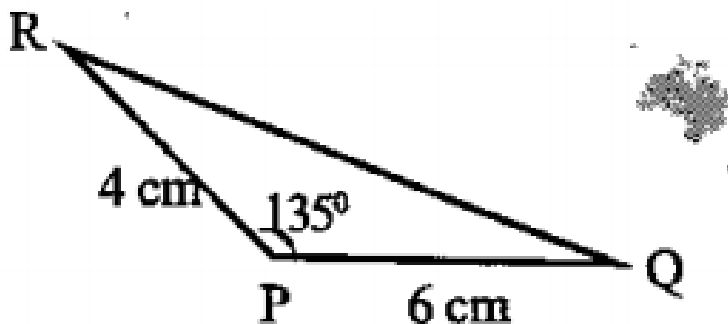
$$\angle A = 45^\circ$$

- a) Find the perpendicular distance from C to AB .
- b) Find the area of the triangle.



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10. Calculate the area of the triangle shown below.



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11. Without drawing pictures or looking up the tables, arrange the numbers ' $\sin 1^\circ$, $\cos 1^\circ$, $\sin 2^\circ$, $\cos 2^\circ$ ' in ascending order.

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12. The lengths of two sides of a triangle are 8 cm and 10 cm and the angle between them is 40° . Calculate its area.

What is the area of the triangle with sides of the same length, but angle between them 140° ?



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13. The sides of a rhombus are 5 centimetres long and one of its angles is 100° . Compute its area.



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14. The sides of a parallelogram are 8 cm and 12 cm and
and
the angle between them is 50° . Calculate its area.



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15. Angles of 50° and 65° are drawn at the end of
a 5 cm
long line, to make a triangle. Calculate its area.



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16. A triangle is to be drawn with one side 8 cm and an angle on it 40° .

What is the minimum length of the side opposite this angle ?



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17. The diagonal of a square is '12 cm'. Calculate the perimeter and area of the square.

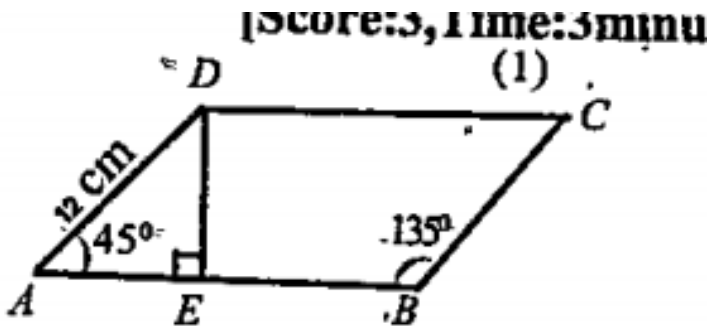


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18. The length of the perpendicular drawn from a vertex to opposite side of an equilateral triangle is '12 cm'. Calculate its perimeter and area.

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19. One side of a rhombus is 12 cm and one angle is 135° :- Find the distance between the parallel sides?





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20. In $\triangle ABC$, $\angle A = 60^\circ$, $\angle B = 45^\circ$, $AB = 10$

cm

a) Find the perpendicular distance from C to AB .

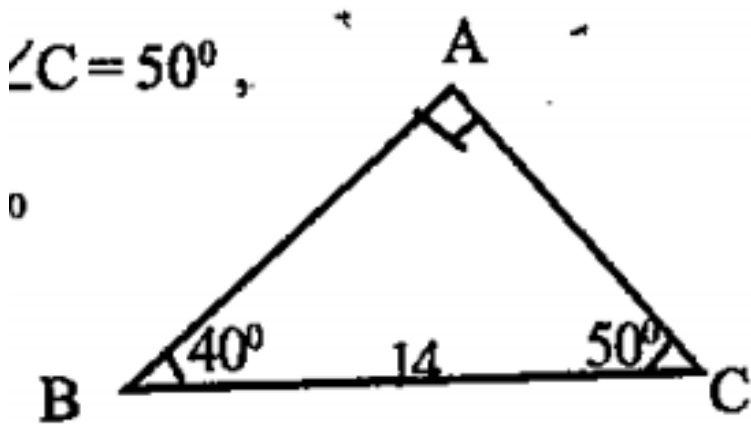
b) Find the area of the triangle.



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21. In the figure, $BC = 14$, $\angle B = 40^\circ$, $\angle C = 50^\circ$ Find the

area of triangle ABC .



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22. The figure shows a triangle and its circumcircle:

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What is the radius of the circle?

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23. What is the circum radius of an equilateral triangle of sides 8 centimetres?



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24. The figure shows a triangle and its circum circle.

i) Compute the diameter of the circle.

ii) Compute the lengths of the other two sides of the triangle.

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25. A circle is to be drawn, passing through the ends of a line, 5 centimetres long, and the angle, on the circle on one side: of the line should be 80° :

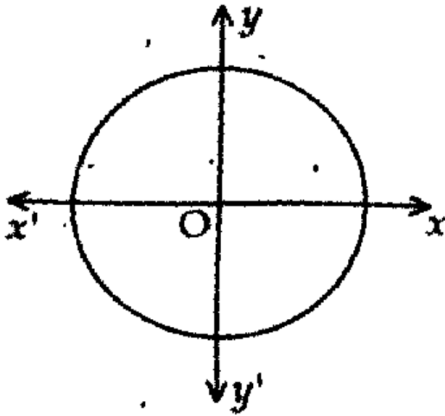
What should be the radius of the circle?



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26. In the figure, O is the centre of the circle and $x^2 + y^2 = 25$ is the equation of the circle. What is

the radius of the circle?



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27. A regular pentagon is drawn with vertices on a circle of radius 15 centimetres. Calculate the length of its sides.

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28. The figure shows a triangle and its circumcircle.

Compute the radius of the circle.

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29. In $\triangle ABC$, $\angle A = 40^\circ$, $BC = 8cm$

Find the circum diameter of the triangle. [\sin

$40=0.64$]



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30.

In

$\triangle ABC$, $AB = 7\text{cm}$, $BC = 12\text{cm}$, $\angle B = 40^\circ$

a) Find the area of the triangle.

b) Calculate the length of AC.



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31. A B' is a chord of a circle with centre O.

$\angle AOB = 70^\circ$

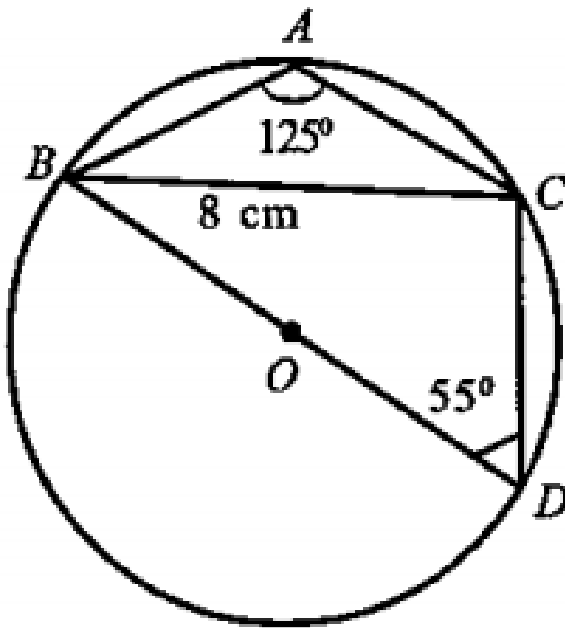
AB = 6 cm. Find the diameter of the circle.

$\sin 35^\circ = 0.57$

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32. In $\triangle ABC$, $\angle A = 125^\circ$, $BC = 8\text{ cm}$. Find the diameter of the circumcircle. [$\sin 55^\circ = .82$]



33. One angle of a rhombus is 50° and one diagonal

is 5 cm. What is its area?



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34. A ladder leans against a wall, with its foot 2 metres away

from the wall and the angle with the floor is 40° .

How

high is the top end of the ladder from the ground?



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35. Three rectangles are to be cut along the diagonals and the triangles so got rearranged to form a regular pentagon, as shown in the picture. If the sides of the pentagon are to be 30 centimetres, what should be the length and breadth of the rectangles?

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36. In the picture, the vertical lines are equally spaced.

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Prove that their heights are in arithmetic sequence.

What is the common difference?



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37. One side of a triangle is 6 cm and the angle at its ends are 40° and 65° . Calculate its area.



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38. In the figure 'B C=a, C D=b'

prove that 'a=3 b'

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39. Find the area of a triangle whose sides are a and b and the angle between those sides is C



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40.

In

$\triangle ABC$, $AB = 10\text{cm}$, $\angle A = 40^\circ$, $\angle B = 70^\circ$

Compute the area of the triangle.

$[\tan 40^\circ = 0.84, \tan 70^\circ = 2.75]$



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41. AB is the diameter of the circle. If $PA=9$ and \angle

$\angle P A G=30^\circ$ find

a) Radius of the circle.

b) the lengths of the sides of the rilateral 'ADBC'.

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42. A man 1.7metres tall stands 10 metres away from the foot of a tree, and he sees the top of the tree at an angle of elevation 40° . How tall is the tree?



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43. A man 1.8 metres tall looks down from the top of a light house 25 metres high and sees a ship at an angle of depression 35° How far is the ship

from the foot of the light house? Lets draw a figure first:



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44. A boy standing at the edge of a canal sees the top of a tree at an elevation of 70° . Stepping 10 metres back, he sees it at an elevation of 25° . The boy is 1.5 metres tall.

How wide is the canal and how tall is the tree?

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45. When the sun is at an elevation of 40° the length of the shadow of a tree is 18 metres. What is the height of the tree?



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46. When the sun is at an elevation of 35° , the shadow of a tree is 10 metres. What would be the length of the shadow, when the sun is at an elevation of 25° ?



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47. From the top of an electric post, two wires are stretched to either side and fixed to the ground, 25 meters apart. The wires make angle 55° and 40° with the ground. What is the height of the post?



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48. A '1.5' metre tall boy saw the top. of a building under construction at an elevation of 30° . The completed building was 10 metres higher and the boy saw its top at an elevation of 60° from the same spot. What is the height of the building?



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49. A '1.75' metre tall man, standing at the foot of a tower, sees the top of a hill 40 metres away at an elevation of 60° . Climbing to the top of the tower, he sees it at an elevation of 50° . Calculate the heights of the tower and the hill.



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50. A man 1.8 metre tall standing at the top of a telephonetower, saw the top of a 10 m high building at a

depression of 40°

and the base of the building at a depression of

60° . What is

the height of the tower? How far is it from the

building?



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51. Find the relation of the perimeter and area of

a,regular polygon with its, circumradius.



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52. Find a sequence of numbers getting. closer and closer to 'pi' using sin.



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53.

In

$\triangle ABC$, $AB = 20\text{cm}$, $AC = 25\text{cm}$ and $\angle A = 70^\circ$

a) Find the perpendicular from C to A B.

b) What is the area of the triangle?

[$\sin 70 = 0.94$]



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54. In triangle PQR,



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55. In $\triangle ABC$, a, b, c are the sides and R be the circum radius, prove that the area of the triangle is $\frac{abc}{4R}$.

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56. In triangle 'ABC, / \ A=90^circ' and tan 'B=2(2/5)'

a) Find 'sin B, cos B'.

b) What is 'sin ^2 B+cos ^2 B ?'

'(##VPU_TTT_MAT_X_P01_C05_E11_004_Q01##)'



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57. In $\triangle ABC$, $AB = 10cm$, $AC = 20cm$ and

$\angle A = 135^\circ$

a) Compute the-area of the triangle.



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58. Charges $+2q$, $+q$ and $+q$ are placed at the corners A, B and C of an equilateral triangle ABC. If E is the electric field at the circumcentre O of the triangle, due to the charge $+q$, then the magnitude and direction of the resultant electric field at O is



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59. One perpendicular side of a right triangle with angle 45° is '8 cm'.

a) What is the hypotensuse?

b) Find the radius from the midpoint of hypotenuse to the corner of the angle?



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60. A man observed the top of a tower at a distance a from its base at an angle of elevation 30° . He saw the top of a tower at an angle of elevation 60° from a point at the distance b from the base, Prove that the height of the tower $h = \sqrt{ab}$



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61. When the sun is at an elevation of 40° the shadow of the flagpost is 15 metres.

a) Find the height of the flagpost.

b) What would be the length of, the shadow, when the sun is at an elevation of 45° ?

[$\tan 40=0.84$, $\sin 40=0.64$]



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62. Two buildings in a plane ground are 20 metres apart. From the top of the smaller building, one

sees the base of the building at a depression of 50° and its top at an elevation of 25° .

a) Draw a rough figure and mark the measurements.

b) Find the height of the smaller building.

c) Find the height of the bigger building.

' $\tan 50^\circ = 1.2$, $\tan 25^\circ = 0.4$ ']

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63. Using the relations. " $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C} = 2R$ " and ' $A = \frac{1}{2} a \times b \sin C$ ', prove that area of a triangle ' $A = \frac{abc}{4R}$ '.



64. One sees the top of a tree on the bank of a river at an elevation of 70° from the other bank. Stepping 20 metres back, he sees the top. of the tree at an elevation of 55° . Height of the person is '1.4' metres.

a) Draw a rough figure and mark the measurements.

b) Find the height of the tree.

c) Find the width of the river.

' $[\tan 70=2.75, \tan 55=1.43]$ '

65. A tower is built in a river of width 80 metres. One sees the top of the river at an elevation of 55° and 65° . from either banks of the river.

- a) Draw a figure using the given measurements.
- b) Find the height of tower
- c) Find the distances to either banks from the foot of the tower.

[$\tan 55^\circ = 1.43$, $\tan 65^\circ = 2.14$]



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66. Two children of same height standing on either sides of a tower, looks the top of tower at an elevation of 40° , 55° . The distance between the children is 25 metres. Height of the children is 1.5 metres.

a) Draw a rough figure showing the given measurements.

b) Calculate the height of the tower.

[$\sin 40^\circ = 0.64$, $\sin 55^\circ = 0.82$, $\cos 40^\circ = 0.77$, $\cos 55^\circ = 0.57$, $\tan 40^\circ = 0.89$, $\tan 55^\circ = 1.43$]



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67. A child stands 30 metres away from the foot of a telephone tower, sees the top of the tower at an angle of elevation 30° . Stepping some distance towards the tower, sees it at an elevation of 45°

a) What is the height of the tower?

b) How much distance did he walk?



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68. One sees a boat in the sea, on the top of a lighthouse at a depression of 20° . After sometimes he sees the boat at a depression of 30° . If the height of the lighthouse is 160 meter. What distance will

the boat travel during this time?

[$\tan 20=0.3640$, $\tan 30=0.5774$]



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69. Two buildings of same height in a plane ground are 80 meters apart, A boy standing in between sees the top of the buildings at an elevation of 35° and 65° .

a) Draw a rough figure.

b) Find the distance from each buildings to the boy.

c) Find the height of buildings.

'[sin 35=0.57, cos 35=0.81, tan 35=0.70 , sin 65=0.90,
cos 65 =0.42, tan 65=2.14]'



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70. On the top of a 60 metre high building sees the top and bottom of a tower at a depression of 30° and 60° .

What is the height of the tower?



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71. ABCD is a parallelogram. 'AB=8 cm', 'AD=6 cm',
 $\angle D = 120^\circ$. Find the area of the parallelogram.

(##VPU_TMATX - P01C05E12001 - Q01##)



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72. In $\triangle ABC$, $BC = 18\text{cm}$, $AC = 18\text{cm}$
 $\angle C = 120^\circ$

- (a) Find the perpendicular distance from 'C' to 'AB'.
- b) What is the area of the triangle?
- c) What is the ratio of sides of the triangle with angle 30° , 30° and 120° ?



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73. Can you cut out a triangle having one angle ' 37° ' and side opposite to this angle as '9 cm' from a circular cardboard sheet of radius '14 cm' ?
' $[\sin 37^\circ=0.60, \cos 37^\circ=0.79]$ '



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74. In triangle ABC , $AB = 14\text{cm}$, $AC = 15\text{cm}$, $\sin A = \frac{4}{5}$.

Find the following:

a) The perpendicular distance from C to AB.

b) The area of the triangle.

c) The length of BC.



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75. From the top of a building 15 meter high, one sees the top of another taller building at an angle of elevation of 70° and bottom at an angle of depression of 40°

a) Draw a rough figure and mark the measurements given.

b) Find the height of the taller building.

[$\tan 70 = 2.747, \tan 40 = 0.839$]

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76. In triangle $\triangle ABC$, AD is the median from A.

$\angle BAD = 35^\circ$, $AB = 18$ cm and $AD = 12$ cm. Find:

a) The ratio of the areas of the triangles $\triangle ADC$ and $\triangle ABC$.

b) The perpendicular distance from D to AB.

c) The length of BC. [$\sin 35^\circ = 0.57$, $\cos 35^\circ = 0.82$, $\tan 35^\circ = 0.7$]

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77. If in triangle 'ABC', ' $\angle C = 90^\circ$, ' $\angle A = 80^\circ$ ' ' $AC = 8$ cm', then compute the following.

'(##VPU_TTT_MAT_X_P01_C05_E12_007_Q01##)'

a) The perpendicular distance from C to 'AB'.

b) The area of triangle ABC.

c) The length of the sides 'AC' and 'BC'.

'[$\sin 80^\circ = 0.98$, $\sin 50^\circ = 0.77$, $\tan 80^\circ = 5.67$, $\tan 50^\circ = 1.19$]



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78. Angle measures of a triangle are 30° , 70° , 80° . If the length of its smallest side is 10 centimetres, find the length of its other sides.

You can use the following table.

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79. A boy standing on the top of a tower 20 metres height, saw the top of a building at an elevation of 50° and its base at a depression of 30°

a) Draw a rough figure. according to the given

data.

b) find the distance between the tower and the building.

c) find the distance from the top of the tower to the base of the building.

d) find the height of the building.

[$\sin 50^\circ = 0.77$, $\cos 50^\circ = 0.64$, $\tan 50^\circ = 1.2$, $\sqrt{3} = 1.7$]



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80. A ladder leans against a wall. Its foot is 3 metres away from the wall and making an angle 35° with ground.

How high is

the other end of the ladder from the ground?

($\sin 35^\circ = 0.57$, $\cos 35^\circ = 0.82$, $\tan 35^\circ = 0.70$)



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81. A boy sees the top of a tower with an angle of elevation. 60° .

Stepping 20metres back, he sees the same top with an angle

of elevation 30° . Draw a rough figure and calculate

the height of the tower.

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82. In the figure,

$$\angle B = 90^\circ, \angle C = x^\circ$$

$$\angle A = y^\circ$$

(##VPU_TTT_MAT_X_P01_C05_E14_003_Q01##)

a) What is $x+y$?

b) Prove that $\sin x = \cos y$

c) If $\sin x = \cos x$, find the value of x .

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83. In the figure, $\angle B = 50^\circ$, $\angle ADC = 135^\circ$. $AB = 10$ centimetre. $BC = 25$ centimetre.

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a) What is the area of the triangle 'ABC' ?

b) Find the length of DC.

($\sin 50^\circ = 0.77$, $\cos 50^\circ = 0.64$, $\tan 50^\circ = 1.19$)



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84. In 'triangle A B C, $\angle A = 75^\circ$, $\angle C = 60^\circ$ '

(##VPU_TTT_MAT_X_P01_C05_E14_005_Q01##)

a) What is the measure of $\angle B$?

b) If $AB = 5\sqrt{2}$, what is the length of AC ?

c) Find the ratio of $AB : BC : AC$.



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85. In triangle ABC , P is a point on BC such that $AP \perp BC$. The length of AP is 10 centimetres. What is the length of BP ? What is the length of PC ? Calculate the length of BC ?

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86. In triangle 'ABC', length of 'AB=6 cm', $\angle A=70^\circ$, $\angle B=55^\circ$

'(##VPU_TTT_MAT_X_P01_C05_E15_002_Q01##)'

a) Find $\angle C$.

b) Find 'AC'

c) Find the area of triangle 'ABC'. ($\sin 70^\circ=0.93$)'



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87. A man standing on the top of a light house sees a ship approaching the seashore at an angle of depression of 22° . After the ship has travelled

100 meters more towards the sea shore, he sees it at an angle of depression of 31° . The ship stops there.

a) Draw a rough-sketch.

b) How far is the ship from the light house.

c) Find the height of the light house.

($\tan 22^\circ = 0.4$, $\tan 31^\circ = 0.6$)



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88. 'ABCD' is a parallelogram. 'AB=8 cm'. 'AD=4 cm,

$\angle B = 120^\circ$

'(##VPU_TTT_MAT_X_P01_C05_E16_001_Q01##)'

a) What is $\angle A$?

b) What is the perpendicular distance from D to $\triangle ABC$

c) What is the area of ABCD?



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89. O is the centre of the circum circle of triangle ABC.

$\angle A = 40^\circ, \angle B = 80^\circ$

$\angle C = 60^\circ, BC = 6.4$ centimetres.

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a) What is the diameter of the circle.

b) What is the length of the other two sides.



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90. A boy saw the top of a building under construction at an elevation of 30° .

The completed building was 12m higher and the boy saw its top, at an

elevation of 60° from the same spot.

a) Draw a rough figure based on the given details.

b) What is the height of the building?

c) What is the distance between the building and the boy?



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91. In the figure, 'C, D' are points on the circle 'AD' is a diameter of the circle $\angle C = 30^\circ$, $AB = 4$ centimetres.

(##VPU_TTT_MAT_X_P01_C05_E17_001_Q01##)

a) $\angle D = \dots\dots\dots$

b) $\angle A B D = \dots\dots\dots$

c) What is the length of the diameter?



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92. In triangle 'PQR, $\angle Q=90^\circ$, $\angle R=x^\circ$:

Lengths of the sides PQ, QR and PR are a, b, c respectively.

'(##VPU_TTT_MAT_X_P01_C05_E17_002_Q01##)'

a) Which among the following is ' $\tan x^\circ$?' ' $(a/c, b/a, a/b, b/c)$ '

b) Similarly write ' $\sin x^\circ$ ' and ' $\cos x^\circ$ ' from this triangle:

c) Prove that ' $(\sin x^\circ)/(\cos x^\circ)=\tan x^\circ$ '



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93. A boy is standing between two building of equal height. The boy and the buildings are in a straight line. He see the tops of those buildings at elevations of 45° and 30° . The nearest building is 20 metres away from him. Draw a rough figure.



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94. In the figure

$$\angle B = 90^\circ$$

$$\angle C = 44^\circ$$

a) What is the measure of $\angle A$?

b) Which among the following is $\tan 44^\circ$?

$\frac{AC}{BC}, \frac{AB}{AC}, \frac{BC}{AB}, \frac{BC}{AC}$

c) Prove that $\tan 44^\circ \times \tan 46^\circ = 1$.

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95. In the figure 'P' is the centre of the circle. 'A, B' and 'D' are points on the circle.

$\angle APD = 90^\circ, AD = 5$ centimetres.

###VPU_TTT_MAT_X_P01_C05_E18_002_Q01###

a) What is the measure of $\angle A$?

b) What is the area of triangle APD?

c) Find the area of the parallelogram ABCD.



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96. A boy standing at one bank of a river sees the top of a tree on the other bank directly opposite to the boy at an elevation of 60° . Stepping 40 metres back, he sees the top at an elevation of 30° . Draw a rough figure and find the height of the tree.



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97. Diagonal of a rectangle is 12 centimetres in length. The angle made by the diagonal with one of its sides is 30° . Find the perimeter and area of the rectangle.



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98. In triangle ABC if $\angle B=90^\circ$, $\angle A=30^\circ$, find $\sin C$, $\cos C$, $\tan C$



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99. In $\triangle ABC$, $\angle A = 125^\circ$, $BC = 8$ cm, find diameter of the circle.

'(##VPU_TTT_MAT_X_P01_C05_E19_003_Q01##)'



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100. In $\triangle ABC$, $AC = BC = 12$ centimetres, $\angle ACB = 60^\circ$

a) What is the perpendicular distance from C to AB?

b) Calculate the area of the triangle.



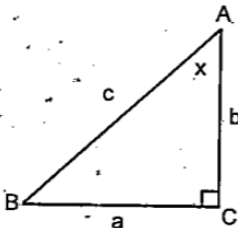
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101. In the figure $\angle A = x^\circ$, write $\sin x^\circ$, $\cos x^\circ$, $\tan x^\circ$

a) Find $\sin x^\circ \cos x^\circ$.

b) What is $\angle B$?

c) Prove that $\sin(90^\circ - x) = \cos x$, $\cos(90^\circ - x) = \sin x$



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