



SNAP PYQs on Trigonometry with Solutions: Practice SNAP Previous Year Questions

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Trigonometry is an important topic in the Quantitative Ability and Data Interpretation section in SNAP exam. Practising this topic will increase your score overall and make your conceptual grip on SNAP exam stronger.

This article gives you a full set of SNAP Trigonometry previous year questions (PYQs) with explanations for effective preparation. Practice of SNAP PYQs on Quantitative Ability and Data Interpretation including Trigonometry questions regularly will improve accuracy, speed, and confidence in the **SNAP 2025** exam.

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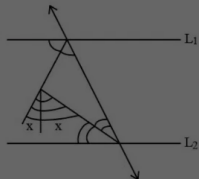
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TRIGONOMETRY

SNAP PREVIOUS YEAR WITH SOLUTIONS

SNAP PYQs on Trigonometry with Solutions

1. In the figure given below $L_1 \parallel L_2$ then $x =$ _____.



- A 30
- B 45
- C 60
- D Cannot be determined

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2. Inside a triangular park, there is a flower bed, forming a similar triangle. around the flower bed runs a uniform path of such a width that the sides of the park are exactly double the corresponding sides of the flower bed. The ratio of areas of the path to the flower bed is :

A 1:1

B 1:2

C 1:3

D 3:1

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3. A letter is lying against a wall which is 5 meters high. If the ladder slips 2 meters away from the wall, the top of the ladder touches the foot of the wall, the length of the ladder is.

A 5m

B 5.25m

C 7.75m

D 4m.

4. A right triangle with sides 3 cm, 4 cm and 5 cm is inscribed in a cone. The volume of the cone so formed is :

A $12\pi \text{ cm}^3$ B $15\pi \text{ cm}^3$ C $16\pi \text{ cm}^3$ D $20\pi \text{ cm}^3$
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5. What is the value of $\sin 45^\circ + \tan 45^\circ$?

A $\frac{\sqrt{2}-1}{\sqrt{2}}$ B $\frac{2-\sqrt{2}}{2}$ C $\frac{\sqrt{2}+1}{\sqrt{2}}$



D None of these

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6. Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships are 30° and 45° respectively. If the lighthouse is 100 m high, the distance between the two ships is :

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A 173 m

B 200 m

C 200 m

D 300 m

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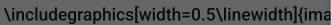
7. Area of a square natural lake is 50SQ kms. A diver wishing to cross the lake diagonally will have to swim a distance of -

A 10 miles

B 12 miles

C 15 miles

D None of the above.

8. In $\triangle ABC$, $\angle CAB = 60^\circ$, $BC = a$, $AC = b$,


A $a^2 = b^2 + c^2 - bc$

B $a^2 = b^2 + c^2 - 2bc$

C $a^2 = b^2 + c^2 + bc$

D $a^2 = b^2 + c^2 + 2bc$

9. What is the value of $\frac{\sin 42^\circ}{\cos 48^\circ}$?

A 0.5

B 1

C $\frac{\sqrt{2}-1}{\sqrt{2}}$

D None of these

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10. Ram and Shyam are 10 km apart. They both see a hot-air balloon making angles of elevation 60° and 30° respectively. What is the height at which the balloon could be flying?

A $4\sqrt{3}$

B $5\sqrt{3}$

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C $3\sqrt{3}$

D $2\sqrt{3}$

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11. If $\tan\theta + \cot\theta = 4$, find $\tan^2\theta + \cot^2\theta$.

A 14

B 16

C 20

D 8

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12. The area of triangle is half the area of a square. The perimeter of the square is 224cms. What is the area of the triangle?

A 1568 cm^2

B 1856 cm^2

C 1558 cm^2

D 1658 cm^2

13. If $\frac{(2\sin\theta - \cos\theta)}{(\cos\theta + \sin\theta)} = 1$, then the value of $\cot\theta$ is

A $\frac{1}{2}$

B $\frac{1}{3}$

C 3

D 2

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14. A hall is 15 m long and 12 m broad. If the sum of the areas of the floor and the ceiling is equal to the sum of the areas of four walls, the volume of the hall is :

A 720

B 900

C 1200

D 2000

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15. Two ships are sailing in the sea on the two sides of a lighthouse. The angle of elevation of the top of the lighthouse is observed from the ships as 30° and 45° respectively. If the lighthouse is 100 m high, the distance between the two ships is:

A 173 m

B 200 m

C 273 m

D 300 m

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