

# ANGLE FORMULA

A branch of mathematics that helps us find the relationship between the angles and sides of triangles is called trigonometry. As an important mathematical operation, trigonometry plays an integral part in miscellaneous domains like engineering, physics, navigation, etc To get to know trigonometry fully, one needs to understand varied elemental ideas like sides, angles, and unit circles, along with important trigonometric functions like sine, cosine, tangent, etc:

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**Q1: If  $\cos(\theta) = 0.8$ , what is  $\sin(\theta)$ ?**

- A: 0.2
  - B: 0.4
  - C: 0.6
  - D: 0.8
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**Q2: What is the formula for the exterior angle of a polygon with  $n$  sides?**

- A:  $180 - (n - 2) * 180$
  - B:  $360 / n$
  - C:  $(n - 2) * 180 / n$
  - D:  $90 / n$
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**Q3: What is the value of  $\sin(60 \text{ degrees})$ ?**

- A: 0
  - B: 0.5
  - C:  $\sqrt{3}/2$
  - D: 1
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**Q4: What is the value of  $\sin(30)$ ?**

- A: 0.5
  - B: 1
  - C: 0
  - D:  $\sqrt{3}/2$
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**Q5: If  $\tan(x) = 0.75$ , what is the value of  $\cos(x)$ ?**

- A: 0.5
  - B: 0.75
  - C: 1
  - D: 0.25
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**Q6: In a right triangle with an angle of 60 degrees, what is the value of the cosine of that angle?**

- A: 0.5
  - B: 0
  - C: 1
  - D:  $\sqrt{3}/2$
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**Q7: What is the value of Sin (45)?**

- A: 0
  - B:  $\sqrt{2}/2$
  - C: 1
  - D: 0.5
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**Q8: If Cos (45) = Sin (a), what is the value of a in degrees?**

- A: 45
  - B: 60
  - C: 30
  - D: 90
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**Q9: In a right triangle, if the length of the hypotenuse is 10 units and the length of one of the legs is 6 units, what is the sine of the angle between the hypotenuse and the 6-unit leg?**

- A: 0.8
  - B: 0.6
  - C: 0.4
  - D: 1
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**Q10: If Sin( $\theta$ ) = 3/5, what is the value of cos( $\theta$ )?**

- A: 1/5
  - B: 2/5
  - C: 3/5
  - D: 4/5
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## Answers

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**Q1:** B - 0.4

**Q2:** C -  $(n - 2) * 180 / n$

**Q3:** C -  $\sqrt{3}/2$

**Q4:** D -  $\sqrt{3}/2$

**Q5:** A - 0.5

**Q6:** D -  $\sqrt{3}/2$

**Q7:** B -  $\sqrt{2}/2$

**Q8:** A - 45

**Q9:** C - 0.4

**Q10:** D - 4/5