

Project: Triangles and Trigonometry

Exercise 10.1

Multiple Choice Questions

1. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side 3 is θ . The value of $\sin \theta$ is:
 - (a) $\frac{3}{5}$
 - (b) $\frac{4}{5}$
 - (c) $\frac{5}{4}$
 - (d) $\frac{5}{3}$
2. The angle of inclination of a line is 30° . The slope of the line is:
 - (a) $\frac{1}{\sqrt{3}}$
 - (b) $\sqrt{3}$
 - (c) $\frac{1}{2}$
 - (d) 2
3. The angle of inclination of a line is 45° . The slope of the line is:
 - (a) 1
 - (b) -1
 - (c) $\frac{1}{2}$
 - (d) 2
4. The angle of inclination of a line is 60° . The slope of the line is:
 - (a) $\sqrt{3}$
 - (b) $\frac{1}{\sqrt{3}}$
 - (c) $\frac{1}{2}$
 - (d) 2
5. The angle of inclination of a line is 75° . The slope of the line is:
 - (a) $2 + \sqrt{3}$
 - (b) $2 - \sqrt{3}$
 - (c) $\frac{1}{2 + \sqrt{3}}$
 - (d) $\frac{1}{2 - \sqrt{3}}$

True or False Questions

1. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side 3 is θ . The value of $\sin \theta$ is $\frac{3}{5}$.
 - (a) True
 - (b) False
2. The angle of inclination of a line is 30° . The slope of the line is $\frac{1}{\sqrt{3}}$.
 - (a) True
 - (b) False
3. The angle of inclination of a line is 45° . The slope of the line is 1 .
 - (a) True
 - (b) False
4. The angle of inclination of a line is 60° . The slope of the line is $\sqrt{3}$.
 - (a) True
 - (b) False
5. The angle of inclination of a line is 75° . The slope of the line is $2 + \sqrt{3}$.
 - (a) True
 - (b) False

True or False Questions

1. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side 3 is θ . The value of $\sin \theta$ is $\frac{3}{5}$.
 - (a) True
 - (b) False
2. The angle of inclination of a line is 30° . The slope of the line is $\frac{1}{\sqrt{3}}$.
 - (a) True
 - (b) False
3. The angle of inclination of a line is 45° . The slope of the line is 1 .
 - (a) True
 - (b) False
4. The angle of inclination of a line is 60° . The slope of the line is $\sqrt{3}$.
 - (a) True
 - (b) False
5. The angle of inclination of a line is 75° . The slope of the line is $2 + \sqrt{3}$.
 - (a) True
 - (b) False
6. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side 3 is θ . The value of $\sin \theta$ is $\frac{3}{5}$.
 - (a) True
 - (b) False
7. The angle of inclination of a line is 30° . The slope of the line is $\frac{1}{\sqrt{3}}$.
 - (a) True
 - (b) False
8. The angle of inclination of a line is 45° . The slope of the line is 1 .
 - (a) True
 - (b) False
9. The angle of inclination of a line is 60° . The slope of the line is $\sqrt{3}$.
 - (a) True
 - (b) False
10. The angle of inclination of a line is 75° . The slope of the line is $2 + \sqrt{3}$.
 - (a) True
 - (b) False
11. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side 3 is θ . The value of $\sin \theta$ is $\frac{3}{5}$.
 - (a) True
 - (b) False
12. The angle of inclination of a line is 30° . The slope of the line is $\frac{1}{\sqrt{3}}$.
 - (a) True
 - (b) False
13. The angle of inclination of a line is 45° . The slope of the line is 1 .
 - (a) True
 - (b) False
14. The angle of inclination of a line is 60° . The slope of the line is $\sqrt{3}$.
 - (a) True
 - (b) False
15. The angle of inclination of a line is 75° . The slope of the line is $2 + \sqrt{3}$.
 - (a) True
 - (b) False

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