

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 of length 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) $\frac{1}{2}$	(b) $\frac{\sqrt{3}}{2}$
(c) $\frac{1}{\sqrt{3}}$	(d) $\frac{\sqrt{3}}{3}$
3. The angle of inclination of a line is 45° . The slope of the line is:

(a) 1	(b) $\frac{1}{2}$
(c) $\frac{1}{\sqrt{3}}$	(d) $\frac{\sqrt{3}}{3}$
4. The angle of inclination of a line is 60° . The slope of the line is:

(a) $\sqrt{3}$	(b) $\frac{1}{2}$
(c) $\frac{1}{\sqrt{3}}$	(d) $\frac{\sqrt{3}}{3}$

True or False Questions



5. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side of length 3 is θ . The value of $\sin \theta$ is $\frac{3}{5}$.

(a) True	(b) False
(c) True	(d) False
6. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side of length 3 is θ . The value of $\cos \theta$ is $\frac{4}{5}$.

(a) True	(b) False
(c) True	(d) False

True or False Questions



7. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side of length 3 is θ . The value of $\tan \theta$ is $\frac{3}{4}$.

(a) True	(b) False
(c) True	(d) False
8. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side of length 3 is θ . The value of $\sec \theta$ is $\frac{5}{4}$.

(a) True	(b) False
(c) True	(d) False
9. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side of length 3 is θ . The value of $\csc \theta$ is $\frac{5}{3}$.

(a) True	(b) False
(c) True	(d) False
10. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side of length 3 is θ . The value of $\cot \theta$ is $\frac{4}{3}$.

(a) True	(b) False
(c) True	(d) False
11. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side of length 3 is θ . The value of $\sin 2\theta$ is $\frac{24}{25}$.

(a) True	(b) False
(c) True	(d) False
12. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side of length 3 is θ . The value of $\cos 2\theta$ is $\frac{7}{25}$.

(a) True	(b) False
(c) True	(d) False
13. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side of length 3 is θ . The value of $\tan 2\theta$ is $\frac{24}{7}$.

(a) True	(b) False
(c) True	(d) False
14. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side of length 3 is θ . The value of $\sec 2\theta$ is $\frac{25}{7}$.

(a) True	(b) False
(c) True	(d) False
15. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side of length 3 is θ . The value of $\csc 2\theta$ is $\frac{25}{24}$.

(a) True	(b) False
(c) True	(d) False
16. In a right-angled triangle, the sides are 3, 4 and 5. The angle opposite the side of length 3 is θ . The value of $\cot 2\theta$ is $\frac{7}{24}$.

(a) True	(b) False
(c) True	(d) False

Holt Geometry Section Quiz 8

Padhraic Smyth

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Holt Geometry Section Quiz 8:

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 The United States Catalog ,1918 *Paperbacks in Print* ,1978 *Children's Books in Print* ,1993 *Index Medicus* ,2002-12 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **British Books in Print** ,1986
 Publishers' Weekly ,1895

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