

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Chapter 2 Literacy

Use the terms to answer or complete each sentence. Terms may be used more than once.

acute	inclination	right triangle
angle	initial	side lengths
contained	oblique	sine
cosine	obtuse	solve
declination	opposite	standard position
depression	positive	tangent
elevation	Pythagorean	terminal

1. The three primary trigonometric ratios are \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_.
2. The primary trigonometric ratios are defined in terms of the sides and angles of a \_\_\_\_\_ triangle.
3. An angle of \_\_\_\_\_ is measured below a horizontal sight line. It is also known as an angle of \_\_\_\_\_.
4. An angle of \_\_\_\_\_ is measured above a horizontal sight line. It is also known as an angle of \_\_\_\_\_.
5. To \_\_\_\_\_ a triangle means to find all the side lengths and angle measures.
6. An angle in \_\_\_\_\_ is measured counter-clockwise about the origin from the positive  $x$ -axis on the Cartesian plane.
7. The two arms of an angle measured on the Cartesian plane are the \_\_\_\_\_ arm and the \_\_\_\_\_ arm.
8. The primary trigonometric ratios of an \_\_\_\_\_ angle in standard position are positive.
9. The cosine and tangent ratios of an \_\_\_\_\_ angle in standard position are negative, while the sine ratio is \_\_\_\_\_.
10. A triangle with no right angles. \_\_\_\_\_ triangle



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11. A triangle with all angles less than  $90^\circ$ . \_\_\_\_\_ triangle
12. A triangle with one angle greater than  $90^\circ$ . \_\_\_\_\_ triangle
13. The \_\_\_\_\_ law and the \_\_\_\_\_ law work for acute triangles and obtuse triangles.
14. Use the sine law to determine a side length when the corresponding \_\_\_\_\_ angle and one other side-angle pair is known.
15. Use the sine law to determine an \_\_\_\_\_ measure when the corresponding opposite side plus one other side-angle pair is known.
16. An angle that is formed by two adjacent sides. \_\_\_\_\_ angle
17. If two side lengths and the measure of the contained angle are known, the \_\_\_\_\_ law can be used to determine the length of the third side.
18. The cosine law can be used to determine an angle measure if all the \_\_\_\_\_ are known.
19. The \_\_\_\_\_ theorem is a tool that can be used to solve trigonometric problems.



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## Chapter 2 Literacy Answers

1. sine, cosine, tangent
2. right
3. depression, declination
4. elevation, inclination
5. solve
6. standard position
7. initial, terminal
8. acute
9. obtuse, positive
10. oblique
11. acute
12. obtuse
13. sine, cosine
14. opposite
15. angle
16. contained
17. cosine law
18. side lengths
19. Pythagorean

