

# Algebra 2/Trig Crossword Puzzle



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## Across

1. The magnitude of the oscillation of a sinusoidal function.
6. The sum of the terms of a geometric sequence can be called a geometric \_\_\_\_.
7. Line test used to determine a one-to-one function.
10. A set of ordered pairs.
13. The distance from 0 to a number on the number line (two words).
15. A solution to an equation of the form  $f(x) = 0$ .
16. An equation of the form  $ax^2 + bx + c = 0$ .
19. Angles in standard positions that share the same terminal side.
20. An exponent.
21. An angle in standard position whose terminal side falls on the  $x$ -axis.
23. Greatest Common Factor
25. The resulting set of points under a given transformation.
26. A function where each domain element is mapped to the same range element.
27. A positive acute angle formed by  $x$ -axis and the terminal side of an angle in standard position.
30. A sequence in which the terms require the computation of all previous terms.
31. The horizontal distance after which the graph of a function starts repeating itself.
32. A number of the form  $bi$ .
33. Horizontal translation of a periodic function (two words)

## Down

1. The inverse of the sine function.
2. A mathematician credited with finding a triangular array of numbers composed of the coefficients of  $(x + y)^n$ .
3. The expression  $b^2 - 4ac$  where  $a$ ,  $b$  and  $c$  are coefficients of a quadratic equation.
4. The trigonometric function based on the complement of an angle.
5. Produced from the addition of two vectors.
8. A data value that is far removed from the body of the data.
9. A data set that has two modes.
11. Line test to determine if a relation is a function.
12. A fraction with another fraction in its numerator, denominator or both.
14. A quantity that has both magnitude and direction.
17. A sequence in which a common difference separates terms.
18. An educated guess.
22. A circle of radius 1 with center at the origin.
24. A relation in which each  $x$  value is assigned to a unique  $y$  value.
28. The name given to a curve that is bell-shaped and symmetric about the mean.
29. The set of first coordinates in the ordered pairs of a relation.