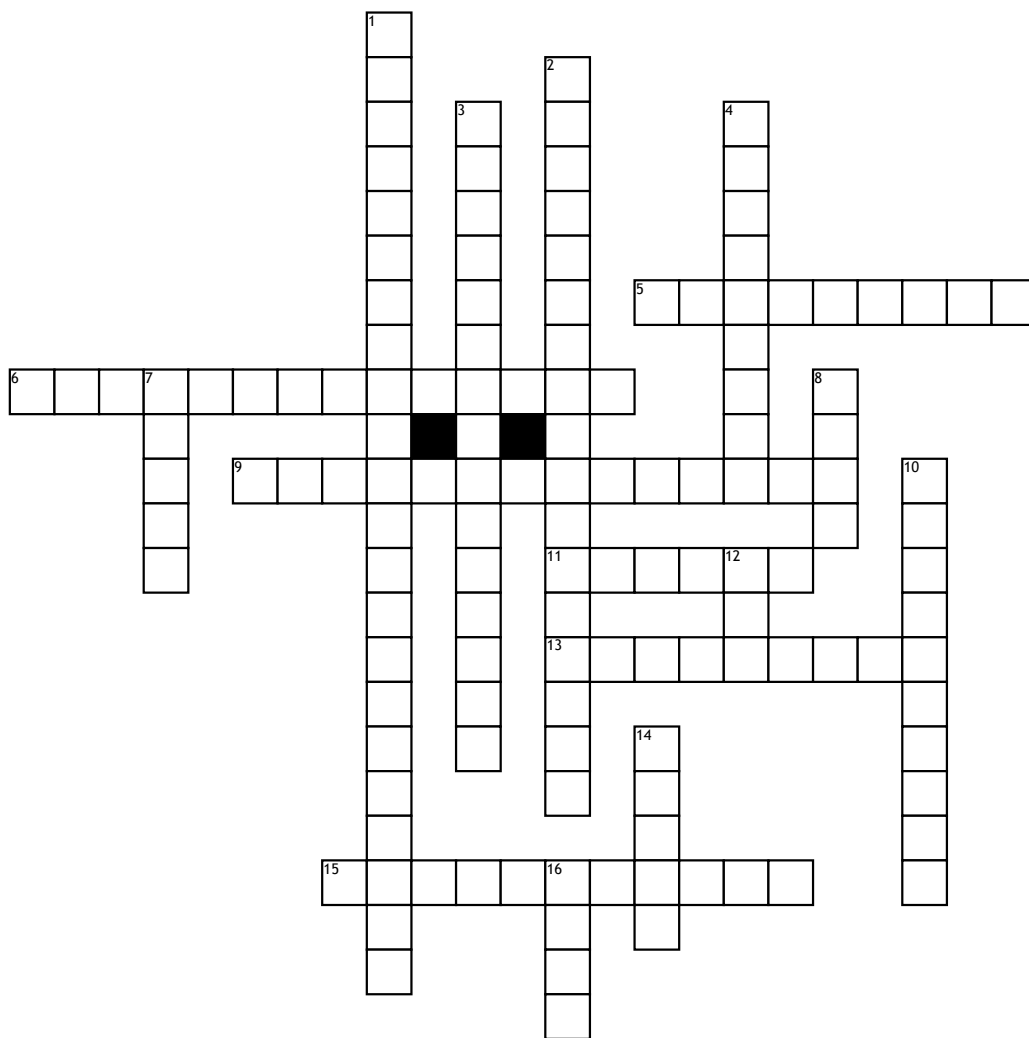# Properties of Trigonometric Functions



## Across

**5.** Half the distance between the max and min values of a function

**6.** The positive, acute angle formed by the terminal side of theta and the x-axis

**9.** The Domain of y = sine (x)

**11.** How many radians or degrees it takes for a function to repeat

**13.** Period/4

**15.** Example: sin 30 degrees = cos 60 degrees represents

## Down

**1.** Real functions which relate to a right triangles and compare the ratios of their side lengths

**2.** If y = cos (x), then bx - c = 0 and bx - c = 2pi can be used to find what

**3.** Type of angle values that are the only angles which tan, cot, sec, and csc could be undefined

**4.** A visual representation of where a tangent or cotangent function is undefined

**7.** Cofunctions of complementary angles are...

**8.** sin (90 - x) =

**10.** short leg x2

**12.** sin^2 x + cos^2 x =

**14.** the axis that includes the coordinates (0,1) and (0,-1)

**16.** 1/tan (x) =

## Word Bank

| | | | |
|---|---|---|---|
| quadrantal angle | trigonometric functions | y axis | hypotenuse |
| cosx | interval endpoints | increment | asymptote |
| cotx | one | amplitude | equal |
| all real numbers | cofunctions | period | reference angle |