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TRIGONOMETRY FORMULAS

Angle Addition Formulas

$$\sin(\alpha + \beta) = \sin\alpha \cos\beta + \cos\alpha \sin\beta$$

$$\cos(\alpha + \beta) = \cos\alpha \cos\beta - \sin\alpha \sin\beta$$

$$\tan(\alpha + \beta) = \frac{\tan\alpha + \tan\beta}{1 - \tan\alpha \tan\beta}$$

Difference Formulas

$$\sin(\alpha - \beta) = \sin\alpha \cos\beta - \cos\alpha \sin\beta$$

$$\cos(\alpha - \beta) = \cos\alpha \cos\beta + \sin\alpha \sin\beta$$

$$\tan(\alpha - \beta) = \frac{\tan\alpha - \tan\beta}{1 + \tan\alpha \tan\beta}$$

Double Angle Formulas

$$\sin(2\theta) = 2 \sin\theta \cos\theta$$

$$\cos(2\theta) = \cos^2\theta - \sin^2\theta$$

$$= 1 - 2 \sin^2\theta$$

$$= 2 \cos^2\theta - 1$$

$$\tan(2\theta) = \frac{2 \tan\theta}{1 - \tan^2\theta}$$

Half Angle Formulas

$$\sin\left(\frac{\theta}{2}\right) = \pm \sqrt{\frac{1 - \cos\theta}{2}}$$

$$\cos\left(\frac{\theta}{2}\right) = \pm \sqrt{\frac{1 + \cos\theta}{2}}$$

$$\tan\left(\frac{\theta}{2}\right) = \pm \sqrt{\frac{1 - \cos\theta}{1 + \cos\theta}}$$

$$= \frac{1 - \cos\theta}{\sin\theta}$$

$$= \frac{\sin\theta}{1 + \cos\theta}$$

Power Reducing Formulas

$$\sin^2\theta = \frac{1 - \cos(2\theta)}{2}$$

$$\cos^2\theta = \frac{1 + \cos(2\theta)}{2}$$

$$\tan^2\theta = \frac{1 - \cos(2\theta)}{1 + \cos(2\theta)}$$

Product-to-Sum Formulas

$$\sin A \sin B = \frac{1}{2} [\cos(A - B) - \cos(A + B)]$$

$$\cos A \cos B = \frac{1}{2} [\cos(A - B) + \cos(A + B)]$$

$$\sin A \cos B = \frac{1}{2} [\sin(A + B) + \sin(A - B)]$$

$$\cos A \sin B = \frac{1}{2} [\sin(A + B) - \sin(A - B)]$$

Sum-to-Product Formulas

$$\sin u + \sin v = 2 \sin\left(\frac{u+v}{2}\right) \cos\left(\frac{u-v}{2}\right)$$

$$\sin u - \sin v = 2 \cos\left(\frac{u+v}{2}\right) \sin\left(\frac{u-v}{2}\right)$$

$$\cos u + \cos v = 2 \cos\left(\frac{u+v}{2}\right) \cos\left(\frac{u-v}{2}\right)$$

$$\cos u - \cos v = -2 \sin\left(\frac{u+v}{2}\right) \sin\left(\frac{u-v}{2}\right)$$

Law of Sines

$$\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$$

Law of Cosines

SSS Form

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

$$\cos B = \frac{c^2 + a^2 - b^2}{2ca}$$

$$\cos C = \frac{a^2 + b^2 - c^2}{2ab}$$

Area of a Triangle (SAS)

$$= \frac{ab \sin C}{2} = \frac{bc \sin A}{2} = \frac{ca \sin B}{2}$$

Law of Cosines

SAS Form

$$c^2 = a^2 + b^2 - 2ab \cos C$$

$$b^2 = c^2 + a^2 - 2ca \cos B$$

$$a^2 = b^2 + c^2 - 2bc \cos A$$

Heron's Formula (SSS)

$$s = \frac{a + b + c}{2}$$

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

Name : _____ Score : _____
 Teacher : _____ Date : _____

Identify the elements for each problem.

1) Circle: _____
 Radius: _____
 Diameter: _____

2) Circle: _____
 Radius: _____
 Diameter: _____

3) Circle: _____
 Radius: _____
 Diameter: _____

4) Circle: _____
 Radius: _____
 Diameter: _____

5) Circle: _____
 Radius: _____
 Diameter: _____

6) Circle: _____
 Radius: _____
 Diameter: _____

7) Circle: _____
 Radius: _____
 Diameter: _____

8) Circle: _____
 Radius: _____
 Diameter: _____

9) Circle: _____
 Radius: _____
 Diameter: _____

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Daily Language



Name _____ /10

1 Color the digraph that you hear.
 ch th
 sh wh

2 Color the correct spelling for the sentence.
 Alex ate dinner at _____ house.
 there their they're

3 Color the word with the same vowel sound as:
 balloon
 mitten

4 Color the sentences using the code.
 Emma smiled happily.
 Emma is smiling happily.
 past = green future = red

5 Circle the adverb.
 How is it taking place?
 I waited quietly for the phone to ring.
 how when where

6 Write the compound word.
 _____ + _____ = _____

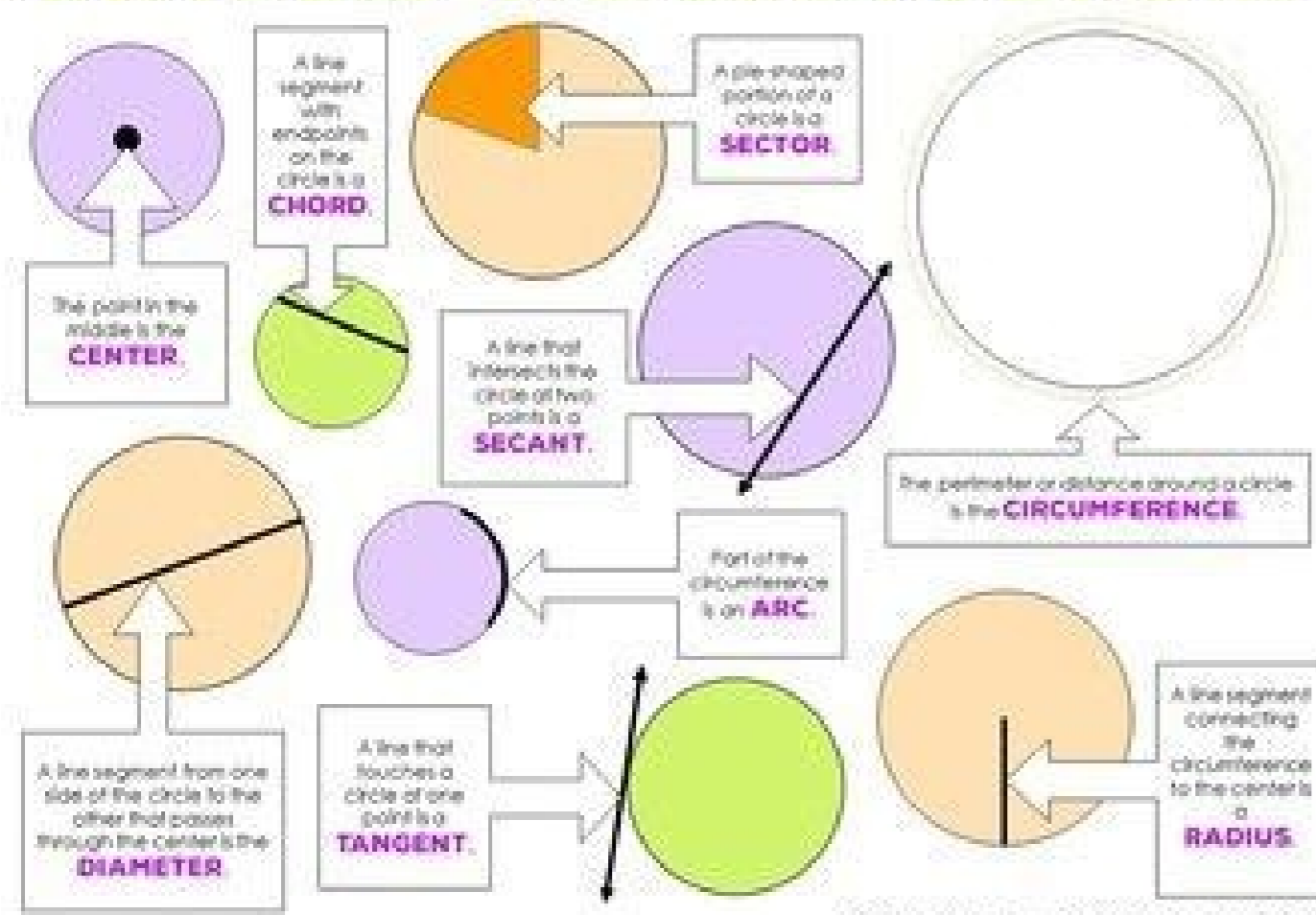
7 Make the word plural.
 toy _____
 tooth _____

8 All of our phones _____ when they are turned off.
 beep beeps

9 Write the antonym for:
 fast _____

10 Ouch That water is hot _____

CIRCLE VOCABULARY



CIRCLES Graphic Organizer

Vocabulary Word	Definition	Naming
Circle	A closed curve where every point on the curve is the same distance from the center.	O
Center	The point in the middle of the circle.	O
Radius	A line segment from the center to the circumference.	OB, OC, OD
Chord	A line segment with both endpoints on the circumference.	EF, GH
Diameter	A chord that passes through the center.	GH
Secant	A line that intersects the circle at two points.	IJ
Tangent	A line that touches the circle at one point.	KL

Circle geometry worksheets grade 11.

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Now we know two of the four angles inside the ABCD. Level 6-7 GCSE The tangents of the same point to a circle are equal in length. Level 6-7 GCSE Level 6-7 GCSE Radius will always find a tangent to the circle at 90 degrees. Our circular theorems tell us that the Angle in a semicircle A Right Angle, then BAD should be 90 \ degrees. (This is the most difficult rule and can be difficult to detect). Let the size of one of these Angles be x, so using the fact that Angles in a triangle add up to 180, we have x + x + 42 = 180degree. Find angle ABC.\textcolor{purple} {w} + \textcolor{red} {x} = 180degree\textcolor{blue} {y} + \textcolor{limegreen} {z} = 180degree This is a 4-sided shape with all corners touching the circumference of the circle. In a related note, the second theorem of the circle we will use A@: The opposite angles on a cyclic hip add up to 180. Then we recognize that the ABDE is not a cyclic hip. We also provide a separate answer book to facilitate the verification of your answers! View product GCSE Maths 2022 The predicted jobs are perfect for preparing for your 2022 math exams. We can also use that the inner angles in a triangle add up to 180A°, we find that, x=180degree a 90degree a First of all, we recognize that, since BDA@ one diámetro, A Angulo BAD A the Angle in a semicircle. To find the CBA, we need to subtract 180 degrees. 180 degrees.

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