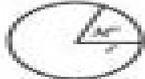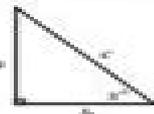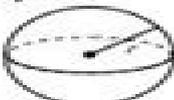# Geometry EOC Released Items – Formula Sheet
End of Course Mathematics Reference Sheet

Parallelogram

$P = $ sum of all sides

$A = bh$

Trapezoid

$A = \dfrac{h(b_1 + b_2)}{2}$

Arc and Sector

$\text{Arc Length} = \left(\dfrac{M}{360}\right) \cdot 2\pi r$

$\text{Sector Area} = \left(\dfrac{M}{360}\right) \cdot \pi r^2$

Triangle

$P = $ sum of all sides

$A = \dfrac{bh}{2}$

Rectangle

$P = 2l + 2w$

$A = lw$

30° – 60° – 90°

Circles

$C = 2\pi r$

$C = \pi d$

$A = \pi r^2$

$\pi = 3.14$

Pythagorean Theorem

$a^2 + b^2 = c^2$

45° – 45° – 90°

Rectangular Solid

$\text{Volume} = lwh$

$\text{Surface Area} = 2lw + 2lh + 2wh$

Pyramid

$B = $ area of base (shaded)

$\text{Volume} = \dfrac{Bh}{3}$

Trigonometric Ratios

$\sin x° = \dfrac{a}{c}$

$\cos x° = \dfrac{b}{c}$

$\tan x° = \dfrac{a}{b}$

Cylinder

$\text{Volume} = \pi r^2 h$

$\text{Surface Area} = 2\pi rh + 2\pi r^2$

Cone

$l = $ slant height

$\text{Volume} = \dfrac{\pi r^2 h}{3}$

$\text{Surface Area} = \pi rl + \pi r^2$

Sphere

$\text{Volume} = \dfrac{4\pi r^3}{3}$

$\text{Surface Area} = 4\pi r^2$

Miscellaneous Formulas	
Area of an equilateral triangle	$A = \dfrac{s^2\sqrt{3}}{4}$ $s = $ length of a side
Distance	$rate \cdot time$
Interest	$principal \cdot rate \cdot time\ in\ years$
Sum of the angles of a polygon having n sides	$(n - 2)180°$
Distance between points on a coordinate plane	$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
Midpoint	$\left(\dfrac{x_2 + x_1}{2}, \dfrac{y_2 + y_1}{2}\right)$
Slope of a nonvertical line (where $x^2 \neq x^1$)	$m = \left(\dfrac{y_2 - y_1}{x_2 - x_1}\right)$
Slope Intercept (where m = slope, b = intercept)	$y = mx + b$
Last term of an arithmetic series Last term of a geometric series (where n ≥ 1)	$a_n = a + (n - 1)d$ $a_n = ar^{n-1}$
Quadratic Formula	$x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Area of a square	$A = x^2$
Volume of a cube	$V = x^3$
Area of a regular polygon	$A = \tfrac{1}{2}ap$ $a = $ apothem, $p = $ perimeter

[Geometry Formula Cheat Sheet](#)

RD Boyd

Geometry Formula Cheat Sheet:

The book delves into Geometry Formula Cheat Sheet. Geometry Formula Cheat Sheet is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Geometry Formula Cheat Sheet, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

    - Chapter 1: Introduction to Geometry Formula Cheat Sheet
    - Chapter 2: Essential Elements of Geometry Formula Cheat Sheet
    - Chapter 3: Geometry Formula Cheat Sheet in Everyday Life
    - Chapter 4: Geometry Formula Cheat Sheet in Specific Contexts
    - Chapter 5: Conclusion

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6. In chapter 5, the author will draw a conclusion about Geometry Formula Cheat Sheet. The final chapter will summarize the key points that have been discussed throughout the book.
   This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Geometry Formula Cheat Sheet.

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