

REVIEW MATH	ANALYTIC GEOMETRY	Name _____	Course & Yr _____
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### I. INTRODUCTION

Analytic Geometry deals with geometric problems using coordinate system thereby converting it into algebraic equations.

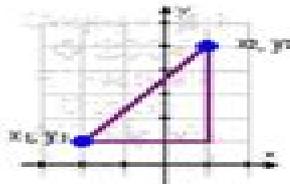
René Descartes (1596 – 1650, Cartesius in Latin language) is regarded as the founder of analytic geometry by introducing coordinate system in 1637. Rectangular coordinate system (also known as Cartesian coordinate system)



Point O is the origin and has coordinates (0, 0). The x-coordinate or abscissa is always measured from the y-axis while the y-coordinate or ordinate is always measured from the x-axis.

### II. DISTANCE BETWEEN TWO POINTS IN A PLANE

Consider two points whose coordinates are  $(x_1, y_1)$  and  $(x_2, y_2)$  respectively. A right triangle is formed with the distance between two points being the hypotenuse of the right triangle.



Using Pythagorean theorem, the distance between two points can be calculated using:

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

This formula is known as the distance formula.

### III. DISTANCE BETWEEN TWO POINTS IN SPACE

Consider three axes namely x, y, and z and two points  $(x_1, y_1, z_1)$  and  $(x_2, y_2, z_2)$ , respectively.

$$PQ = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2 + (z_2 - z_1)^2}$$

### IV. SLOPE OF A LINE

Consider two points whose coordinates are  $(x_1, y_1)$  and  $(x_2, y_2)$ , respectively. A line is formed by connecting these two points. The slope of the line is defined as the rise (vertical) per run (horizontal):



A line parallel to the x-axis has a slope of zero while a line parallel to the y-axis has a slope of infinity.

For parallel lines with slopes  $m_1$  and  $m_2$ , respectively, the slopes are equal.  
 $m_1 = m_2$

For perpendicular lines with slopes  $m_1$  and  $m_2$ , respectively, the slope of one is the negative reciprocal of the other.  
 $m_1 = -1/m_2$

### V. ANGLE BETWEEN TWO LINES

Consider two lines with slopes  $m_1$  and  $m_2$ . The angle  $\theta$  between these lines (line 1 and line 2) may be calculated using the formula:

$$\tan \theta = \frac{m_2 - m_1}{1 + m_1 m_2}$$

### VI. DISTANCE BETWEEN A POINT AND A LINE

Consider the point with coordinates  $P(x_1, y_1)$  and a line with equation  $Ax + By + C = 0$ .



Use + if B is positive and the point is above the line or to the right of the line  
- if B is negative and the point is below the line or to the left of the line  
- Otherwise

### VII. DISTANCE BETWEEN TWO PARALLEL LINES

Consider two parallel lines with equations  $Ax + By + C_1 = 0$  and  $Ax + By + C_2 = 0$ . The perpendicular distance between the two lines is given by:

$$d = \frac{C_2 - C_1}{\pm \sqrt{A^2 + B^2}}$$

### VIII. DIVISION OF LINE SEGMENT

Consider two points with coordinates  $(x_1, y_1)$  and  $(x_2, y_2)$ . The line segment formed by these two points is divided by a point P whose coordinates are  $(x, y)$ .

Let  $r_1$  and  $r_2$  be the corresponding ratio of its length to the total distance between two points



If the point P is at the midpoint of the line segment, then:

$$x = \frac{x_1 + x_2}{2} \quad y = \frac{y_1 + y_2}{2}$$

### IX. AREA OF POLYGON BY USING THE COORDINATES OF ITS VERTICES

Consider a polygon whose vertices have coordinates of  $(x_1, y_1)$ ,  $(x_2, y_2)$  and  $(x_n, y_n)$ .

$$A = \frac{1}{2} \left| \begin{array}{ccc} x_1 & x_2 & x_3 \\ y_1 & y_2 & y_3 \\ x_3 & x_1 & x_2 \end{array} \right|$$

### X. EQUATIONS OF LINES

A line is defined as the shortest distance between two points. The following are the equations of lines:

- A. General Equation  
 $Ax + By + C = 0$
- B. Point Slope Form  
 $y - y_1 = m(x - x_1)$
- C. Slope Intercept Form  
 $y = mx + b$
- D. Intercept Form

$$\frac{x}{a} + \frac{y}{b} = 1$$

# Pam Productions Review Packet Answers Analytic Geometry

**AW Rasmussen**



**Pam Productions Review Packet Answers Analytic Geometry:**

The Top Books of the Year Pam Productions Review Packet Answers Analytic Geometry The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Let's delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year.

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**Discover the Magic :** Delia Owens' "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered.

The novel begins with Richard Pape, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

**The Secret History** is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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