

ANALYTICAL GEOMETRY:

Toolbox / Formulas - Gradient = $m = \frac{y_2 - y_1}{x_2 - x_1}$

- Equation of a straight line

$$= y = mx + c$$

- Midpoint = $M = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$

- pythagorus

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

Parallel lines: same gradient



Bisect: Cut into 2 ^{equal} pieces

2 lines bisect when they have the **SAME** mid point

⊥ lines (90°): $m_1 \times m_2 = -1$



CALCULATE THE LENGTH OF AB:



$$\begin{aligned} AB &= \sqrt{(-1-5)^2 + (7-4)^2} \\ &= \sqrt{45} \\ &= 3\sqrt{5} \text{ units} \end{aligned}$$

DETERMINE THE GRADIENT OF AB:

$$\begin{aligned} m_{AB} &= \frac{7-4}{-1-5} & B(-1; 7) \\ &= \frac{3}{-6} & A(5; 4) \\ &= -\frac{1}{2} \end{aligned}$$

FIND THE CO-ORDINATES OF E IF E IS THE MID POINT OF BA:

$$\begin{aligned} M_{BA} &= \left(\frac{-1+5}{2}, \frac{7+4}{2} \right) \\ \therefore E &= \left(2; \frac{11}{2} \right) \end{aligned}$$

$x \quad y$



Analytical Geometry Study Guide

Y Pai



Analytical Geometry Study Guide:

Student Study Guide, Calculus and Analytic Geometry, 7th, Thomas/Finney George B. Thomas, Maurice D. Weir, 1988

Student's Study Guide, Calculus and Analytic Geometry, 8th Edition, Thomas/Finney Maurice D. Weir, 1992

Student's Study Guide, Calculus and Analytic Geometry, 8th Edition, Thomas/Finney: Test bank Maurice D. Weir, 1992 Elements of Calculus and Analytic Geometry/Student Study Guide Addison-Wesley Longman,

Incorporated, Maurice D. Weir, 1989 *Analytic Geometry and the Calculus* Adolph Winkler Goodman, Cynthia Mansour, 1980

Student Study Guide for Calculus with Analytic Geometry Marvin J. Forray, Stephanie M. White, 1978 Pamphlet - Dept. of the Army United States. Department of the Army, 1951 **Resources in education** , 1982-02 *Mathematics* Lindsay

Cuan Vieira, Guidelines (Firm), 1991 **United States Armed Forces Institute Catalog** United States Armed Forces

Institute, 1963 *Student Guide to Accompany Swokowski's Calculus with Analytic Geometry, Second Edition* William B.

Miller, 1979 **DOD Pam** United States. Office of Armed Forces Information and Education, **Catalog of Copyright**

Entries. Third Series Library of Congress. Copyright Office, 1976 Research in Education , 1974 *Kaplan & Sadock's Study Guide and Self-Examination Review in Psychiatry* Benjamin J. Sadock, Virginia A. Sadock, Pedro Ruiz, 2012-03-28 Kaplan

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Geometry George Brinton Thomas, 1995-08 A workbook that reinforces important concepts and provides study tips and additional practice problems for Chapters P 9 Calculus and Analytic Geometry George B. Thomas, Maurice D. Weir, 1988

Indiana University Bulletin , 1977 Government and Science: Review of the National Science Foundation United States. Congress. House. Committee on Science and Astronautics. Subcommittee on Science, Research, and

Development, 1965 Committee Serial No 6 Contains appendices including summary of testimony p 839 906 and witnesses written responses to subsequent subcommittee questions p 905 1422 Government and Science, Review of the National

Science Foundation, Hearings Before the Subcommittee on Science, Research, and Development... United States. Congress. House Science and Astronautics, 1965

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