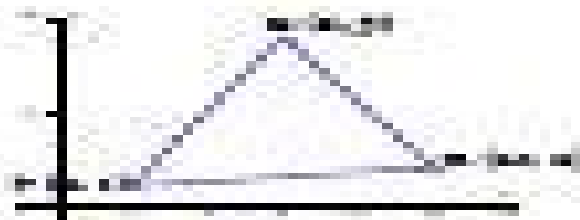


Section 1: Points and straight lines

Worked Example 2: Area of a triangle

Worked



$$\text{BC: } \text{PQ} = \sqrt{(2-0)^2 + (3-0)^2} = \sqrt{4+9} = \sqrt{13}$$

$$\text{PB: } \sqrt{(2-0)^2 + (3-0)^2} = \sqrt{4+9} = \sqrt{13}$$

$$\text{QB: } \sqrt{(4-2)^2 + (0-3)^2} = \sqrt{4+9} = \sqrt{13}$$

Since PB and QB are the same length, the triangle is isosceles.

Find the area of the triangle PQB.

Area of triangle = $\frac{1}{2} \times \text{base} \times \text{height}$

$$\text{Area} = \left(\frac{\text{PQ} \times \text{height}}{2} \right) = \frac{1}{2} \times \sqrt{13} \times \text{height}$$

$$\text{Height of triangle PQB} = \sqrt{(2-0)^2 + (3-0)^2} = \sqrt{4+9} = \sqrt{13}$$

$$\text{Area of triangle} = \frac{1}{2} \times \text{PQ} \times \text{height}$$

$$= \frac{1}{2} \times \sqrt{13} \times \sqrt{13}$$

$$= \frac{1}{2} \times \sqrt{13 \times 13}$$

$$= \frac{1}{2} \times 13 = 6.5$$

$$\text{Area} = 6.5$$

$$\text{Area} = 6.5$$

$$\text{Area} = 6.5$$

Worked Example 3: Gradient of a line

Find the gradient of the line PQ.

Gradient of line PQ = $\frac{y_2 - y_1}{x_2 - x_1}$

$$= \frac{3 - 0}{4 - 0} = \frac{3}{4}$$

$$= \frac{3}{4}$$

$$= \frac{3}{4}$$

Worked Example 4: Gradient of a line

Find the gradient of the line PQ.

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Polytropes Georg P. Horedt, 2005-12-30 This book provides the most complete academic treatment on the application of polytropes ever published It is primarily intended for students and scientists working in Astrophysics and related fields It provides a full overview of past and present research results and is an indispensable guide for everybody wanting to apply polytropes

Omnidirectional multi-view systems: calibration, features and 3D information, Fault Mechanics and Transport Properties of Rocks Brian Evans, Teng-fong Wong, 1992-08-04 This festschrift compiled from the symposium held in honor of W F Brace is a timely overview of fault mechanics and transport properties of rock State of the art research is presented by internationally recognized experts who highlight developments in this contemporary area of study subsequent to Bill Brace's pioneering work Key Features The strength of brittle rocks The effects of stress and stress induced damage on physical properties of rock Permeability and fluid flow in rocks The strength of rocks and tectonic processes

Applied Mechanics Reviews, 1972 *Omnidirectional Vision Systems* Luis Puig, J J Guerrero, 2013-02-01 This work focuses on central catadioptric systems from the early step of calibration to high level tasks such as 3D information retrieval The book opens with a thorough introduction to the sphere camera model along with an analysis of the relation between this model and actual central catadioptric systems Then a new approach to calibrate any single viewpoint catadioptric camera is described This is followed by an analysis of existing methods for calibrating central omnivision systems and a detailed examination of hybrid two view relations that combine images acquired with uncalibrated central catadioptric systems and conventional cameras In the remaining chapters the book discusses a new method to compute the scale space of any omnidirectional image acquired with a central catadioptric system and a technique for computing the orientation of a hand held omnidirectional catadioptric camera

Mathematical Reviews, 2005 ACI Structural Journal, 2001 **Lasers in Microlithography** Daniel J. Ehrlich, Jeffrey Y. Tsao, John Samuel Batchelder, 1987 *Proceedings*, 1987 **Journal of Lubrication Technology**, 1980 **Proceedings of the ... International Offshore Mechanics and Arctic Engineering Symposium**, 1986 **Abstracts**, 1996 **Physics Briefs**, 1983 **Abstract Journal in Earthquake Engineering**, 1972 Dissertation Abstracts International, 1987 **International Aerospace Abstracts**, 1995 **Science Abstracts**, 1992 **Science Citation Index**, 1995 Vols for 1964 have guides and journal lists *Solutions of the Examples in Loney's Coordinate Geometry* A.S. Gosset-Tanner, Sidney Luxton Loney, 1924 **The Method of Coordinates** I.M. Gelfand, E.G. Glagoleva, A.A. Kirilov, 1990-01-01 The need for improved mathematics education at the high school and college levels has never been more apparent than in the 1990s As early as the 1960s I M Gelfand and his colleagues in the USSR thought hard about this same question and developed a style for presenting basic mathematics in a clear and simple form that engaged the curiosity and intellectual interest of thousands of high school and college students These same ideas this same content unchanged by over thirty years of experience and mathematical development are available in the present books to any

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