### Problem 1 - Mathematics (Analytic Geometry)

Find the distance from the point (5, -3) to the line 7x - 4y - 28 = 0.

#### Solution:

$$d = \frac{Ax_1 + By_1 + C_1}{\sqrt{A^2 + B^2}}$$

$$d = \frac{(-)}{(-)} \frac{(7x_1 - 4y_1 + 28)}{\sqrt{(7)^2 + (4)^2}}$$

$$d = \frac{7(5) - 4(-3) - 28}{\sqrt{65}}$$



## Problem 2 – Mathematics (Analytic Geometry)

Find the area bounded by the line 2x - y + 10 = 0 and the coordinate axes.

#### Solution:

$$2x - y + 10 = 0$$
  
when  $x = 0$   $y = 0$   
 $y = 10$   $x = -5$   
 $A = \frac{5(10)}{2}$   
 $A = 25$ 



# **Analytic Geometry Benchmark 1 2015**

**Kathleen Armour** 

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Steel Connection Design by Inelastic Analysis IDEA StatiCa, Mustafa Mahamid, Mark Denavit, Ali Nassiri, Halil Sezen, Martin Vild, 2024-10-15 Comprehensive resource on the finite element method in structural steel connection design through verification with AISC 360 provisions Steel Connection Design by Inelastic Analysis covers the use of the finite element method in structural steel connection design Verification with AISC 360 provisions is presented focusing on the Component Based Finite Element Method CBFEM a novel approach that provides the global behavior and verification of resistance for the design of structural steel connections. This method is essential for fast and practical design and evaluation of connections with different levels of geometry and complexity Detailed modeling and verification examples with references to AISC and other relevant publications are included throughout the text along with roughly 250 illustrations to aid in reader comprehension Readers of this text will benefit from understanding at least the basics of structural design ideally through civil structural or mechanical engineering programs of study Written by a team of six highly qualified authors Steel Connection Design by Inelastic Analysis includes information on T stub connections single plate shear connections bracket plate connections beam over column connections and end plate moment connections Bolted wide flange splice connections temporary splice connections and chevron brace connection in a braced frame Brace connections at beam column connection in a braced frame and double angle simple beam to column connections Semi rigid beam to column connections covering code design calculations and comparisons IDEA StatiCa analysis and ABAQUS analysis Steel Connection Design by Inelastic Analysis is an authoritative reference on the subject for structural engineers Engineers of Record EORs fabrications specialists and connection designers involved in the structural design of steel connections in the United States or any territory using AISC 360 as the primary design code **Innovations in the Analysis and Design of Marine Structures** Yordan Garbatov, C. Guedes Soares, 2025-05-09 Innovations in the Analysis and Design of Marine Structures is a collection of papers presented at MARSTRUCT 2025 the 10th International Conference on Marine Structures MARSTRUCT 2025 Lisbon Portugal 20 22 May 2025 The contributions cover a wide range of topics including Loads and load effects Strength assessment Experimental analysis of structures Materials and fabrication of structures Structural design and optimization Structural reliability and safety Innovations in the Analysis and Design of Marine Structures is essential reading for academics engineers and professionals involved in the design of marine and offshore structures The Proceedings in Marine Technology and Ocean Engineering series is devoted to the publication of proceedings of peer reviewed international conferences dealing with various aspects of Marine Technology and Ocean Engineering The Series includes the proceedings of the following conferences the Marine Structures MARSTRUCT Conferences the Maritime Technology MARTECH Conferences the Renewable Energies Offshore RENEW Conferences the Collision and Grounding of Ships and Offshore Structures ICCGS Conferences and the International Maritime Association of the Mediterranean IMAM Conferences The

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