

Problem 1 – Mathematics (Analytic Geometry)

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

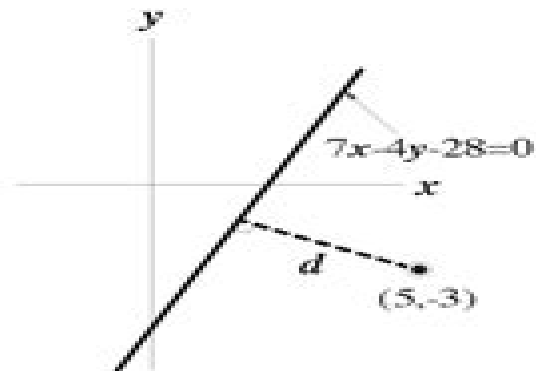
Solution:

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

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

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

$$d = 2.36$$



Problem 2 – Mathematics (Analytic Geometry)

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

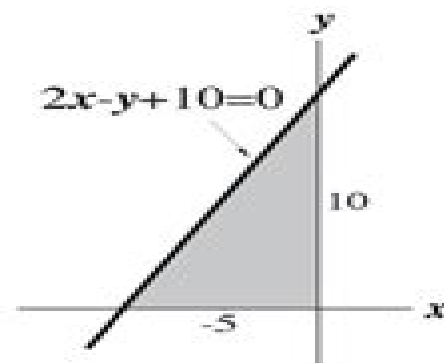
Solution:

$$2x - y + 10 = 0$$

$$\begin{array}{ll} \text{when } x = 0 & y = 10 \\ & x = -5 \end{array}$$

$$A = \frac{5(10)}{2}$$

$$A = 25$$



Analytic Geometry Unit 3 Quiz 1

Mary Jane Sterling



Analytic Geometry Unit 3 Quiz 1:

Pre-Calculus All-in-One For Dummies Mary Jane Sterling, 2023-10-10 The easy way to understand and retain all the concepts taught in pre calculus classes Pre Calculus All in One For Dummies is a great resource if you want to do you best in Pre Calculus Packed with lessons examples and practice problems in the book plus extra chapter quizzes online it gives you absolutely everything you need to succeed in pre calc Unlike your textbook this book presents the essential topics clearly and concisely so you can really understand the stuff you learn in class score high on your tests including the AP Pre Calculus exam and get ready to confidently move ahead to upper level math courses And if you need a refresher before launching into calculus look no further this book has your back Review what you learned in algebra and geometry then dig into pre calculus Master logarithms exponentials conic sections linear equations and beyond Get easy to understand explanations that match the methods your teacher uses Learn clever shortcuts test taking tips and other hacks to make your life easier Pre Calculus All in One For Dummies is the must have resource for students who need to review for exams or just want a little or a lot of extra help understanding what s happening in class *Calculus and Analytic Geometry* Philip Gillett, 1981 [Solutions Guide for Calculus and Analytic Geometry: Complete solutions of all problems in chapters 8 through 14](#) Helen Medley, 1984

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University of Nebraska-Lincoln, *Bulletin: AGRICULTURE, COLLEGE OF*. University of Nebraska--Lincoln. College of Agriculture, 1970 Note series volume number designation applies to entire series not to this title

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