

Problem 1 – Mathematics (Analytic Geometry)

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

Solution:

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

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

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

$$d = 2.36$$



Problem 2 – Mathematics (Analytic Geometry)

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

Solution:

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

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

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

$$A = 25$$



Analytic Geometry Unit 1

Charles Davies



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