

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

**United States. Congress. House.
Committee on Science and
Astronautics. Subcommittee on
Science, Research, and Development**

Analytical Geometry Study Guide:

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for food compliance Nov 6, 2022 — Mass balance, in relationship to food production, can be defined as being the ability to account for all quantities of raw materials, waste, ... Tolerance on Mass Balance for Recall/withdrawal for BRC Aug 3, 2016 — Tolerance on Mass Balance for Recall/withdrawal for BRC - posted in BRCGS ... For example, if you have used 100 Kg of raw materials and 1000 donut ... BRC Auditing - What To Expect Under Food Issue 8 Oct 17, 2019 — The mass balance is the quantity of incoming raw material against the quantity used in the resulting finished products, taking process waste and ... The Mass Balance Approach in Feedstock Substitution An established method to foster sustainability in existing infrastructure · Benefits of the Mass Balance Approach · Biomass balance and ChemCycling · ChemCycling ... 8. Mass Balance Mass-balance analysis may also be referred to as. “Material Flow Analysis” or “Substance Flow Analysis.” Table 8.1 provides several examples of possible inputs,. Mass Balance Approach in the Chemical Industry The mass balance Approach (MBA) is a process for determining the use of chemically recycled or bio-based feedstock in a final product when both recycled and ... BRC 3.9.2 Trace Exercise Sample Procedure to conduct a mass balance check · 1. Select a raw material lot number used in a finished product made within the last 6 months. · 2. Review storage ... UNDERSTANDING VULNERABILITY ASSESSMENT Table 6 provides examples of PRNs for different raw materials. Table 6 Priority ... Mass balance exercises at critical points in the supply chain - the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every.