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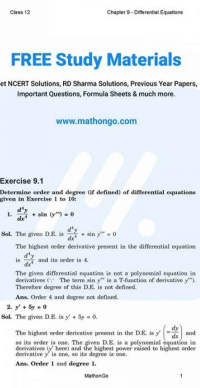
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By Corner Point Method, maximum  $Z = 410$  at  $(30, 20)$ .  
Hence, the profit is maximum equal to ₹ 410 when 30 packages of screws A and 20 packages of screws B are produced in a day.  
**6. A cottage industry manufactures pedestal lamps and wooden shades, each requiring the use of a grinding/cutting machine and a sprayer. It takes 2 hours on grinding/cutting machine and 3 hours on the sprayer to manufacture a pedestal lamp. It takes 1 hour on the grinding/cutting machine and 2 hours on the sprayer to manufacture a shade. On any day, the sprayer is available for at the most 20 hours and the grinding/cutting machine for at the most 12 hours. The profit from the sale of a lamp is ₹ 5 and that from a shade is ₹ 3. Assuming that the manufacturer can sell all the lamps and shades that he produces, how should he schedule his daily production in order to maximise his profit?**

**Sol. Step I. Mathematical formulation of L.P.P.**  
Suppose the manufacturer produces  $x$  pedestal lamps and  $y$  wooden shades. The given data is condensed in the following table:

| Item           | Number | Time on grinding/cutting machine (hrs/item) | Time on sprayer (hrs/item) | Profit (₹/item) |
|----------------|--------|---------------------------------------------|----------------------------|-----------------|
| Pedestal lamps | $x$    | 2                                           | 3                          | 5               |
| Wooden shades  | $y$    | 1                                           | 2                          | 3               |

Total profit =  $5x + 3y$   
Let  $Z = 5x + 3y$   
We have the following mathematical model for the given problem:  
Maximise  $Z = 5x + 3y$  ...*(i)*  
subject to the constraints:  
 $2x + y \leq 12$  (Grinding/cutting machine constraint) ...*(ii)*  
[Given: Cutting/grinding machine is available for at the most (*i.e.*,  $\leq$ ) 12 hours]  
 $3x + 2y \leq 20$  (Sprayer constraint) ...*(iii)*  
[Given: The sprayer is available for at the most 20 hours *i.e.*,  $\leq$  20]

$x, y \geq 0$  ...*(iv)* (' $\therefore$ ' Number of pedestal lamps and wooden shades can't be negative)

**Step II.** The constraint (*iv*)  $x, y \geq 0 \Rightarrow$  The feasible region is in first quadrant.

**Table of values for the line  $2x + y = 12$  of constraint (*ii*)**

|     |    |   |
|-----|----|---|
| $x$ | 0  | 6 |
| $y$ | 12 | 0 |

Let us draw the line joining the points  $(0, 12)$  and  $(6, 0)$ .  
Let us test for origin ( $x = 0, y = 0$ ) in constraint (*ii*)  $2x + y \leq 12$ ,

Chapter 1  
Physical World



- Science and its origin**  
Science is a **systematic understanding of natural phenomena** in detail so that it can be **predicted, controlled and modified**. Science involves exploring, experimenting and speculating phenomena happening around us.
- The word **Science** is derived from a latin verb *Scientia* meaning 'to know'.
  - **Scientific method** is a way to gain knowledge in a systematic and in-depth way. It involves:
    - *Systematic observations*
    - *Controlled experiments*
    - *Qualitative and Quantitative reasoning*
    - *Mathematical modeling*
    - *Prediction and verification (or falsification) of theories*
    - *Speculation or Prediction*
  - Science does not have any final theory. The improved observations, accurate tools keep improving the knowledge and perspective. Johannes Kepler used Tycho Brahe's research on planetary motion to improve Nicolas Copernicus theory.
  - Quantum mechanics was developed to deal with atomic and nuclear phenomena. Work of Ernest Rutherford on nuclear model of atom became basis of quantum theory given by Niels Bohr. Antiparticle theory of Paul Dirac led to the discovery of antilelectron (positron) by Carl Anderson.

- Natural Sciences**  
Natural science is a branch of science concerned with the description, prediction, and understanding of natural phenomena, based on observational and empirical evidence. It consists of following disciplines:
- Physics
  - Chemistry
  - Biology

- Physics**  
**Physics** is a study of basic laws of nature and their manifestation in different natural phenomena. Physics is the study of physical world and matter and its motion through space and time, along with related concepts such as energy and force.
- Word *Physics* is derived from a Greek word *phusikē* meaning nature.
  - Two principal types of approaches in Physics are:
    1. **Unification:** This approach considers all of the world's phenomena as a collection of universal laws in different domains and conditions. Example, law of gravitation applies both to a falling apple from a tree as well as motion of planets around the sun. Electromagnetism laws govern all electric and magnetic phenomena.
    2. **Reduction:** This approach is to derive properties of complex systems from the properties and interaction of its constituent parts. Example, temperature studied under thermodynamics is also related to average kinetic energy of molecules in a system (kinetic theory).

- Impact and uses of Physics:**
- It can explain a phenomena happening over a large magnitude with a simple theory.
  - Experiments and observations are used to develop new theories for unidentified phenomena and improve old theories for existing phenomena.
  - Development of devices using laws of physics.







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