## LATEX ASSIGNMENT

## **ANAND**

## 29-08-2023

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## **EXERCISE 11.12.3**

- 1. Find the coordinates of the point which divides the line segment joining the points which divides the line segment joining the points (-2, 3, 5) and (1, -4, 6) in the ratio
  - (a) 2:3 internally,
  - (b) 2:3 externally
- 2. Given that P(3, 2, -4), Q(5, 4, -6) and R(9, 8, -10) are Collinear. Find the ratio in which Q divides PR.
- 3. Find the ratio in which the yz plane divides the line segment formed by joining the points (-2, 4, 7) and (3, -5, 8).
- 4. Using section formula, show that the points A(2, -3, 4), B(-1, 2, 1) and  $C(0, \frac{1}{3}, 2)$  are collinear.
- 5. Find the coordinates of the points which triset the line segment joining the points P(4, 2, -6) and Q(10, -16, 6).