

O. Maths (FOR MID-TERM)

TO: ROSH AN
THAPA

THAPA

DEPARTMENT
OF
MATHS

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1. List the bormula of;

- a) Distance Formula
- -> The bormula of distance is;

$$d = \sqrt{(\chi_2 - \chi_1)^2 + (y_2 - y_1)^2}$$

- 6) Section bormula for internal and external disdivision.
- -> The formula ob section formula for internal division is;

$$= \left[\frac{m_1 x_2 + m_2 x_1}{m_1 + m_2}, \frac{m_1 y_2 + m_2 y_1}{m_1 + m_2} \right]$$

E) The formula of section formula for external division is;

$$= \left[\frac{m_1 x_2 - m_2 x_1}{m_1 - m_2}, \frac{m_1 y_2 - m_2 y_1}{m_1 - m_2} \right]$$

- C) Mid-point bornula
- -> Mid-point formula is;

$$= \left[\frac{2}{1+x_2}, \frac{y_1+y_2}{2} \right]$$

2) Estabish the relation between the three different measurement of angles (degree, grade and radian).

-> Relation between the three different measurement of angles are;

Since, 1[L) right angle=90° and 1 right angle=1009

$$. . . 90^{\circ} = 100^{\circ}$$

$$. . . 1^{\circ} = \left[\frac{10}{9}\right]^{9}$$
Also, $1^{9} = \left[\frac{9}{10}\right]^{\circ}$

. The formula to find relation between radian, grade and degree measures is;