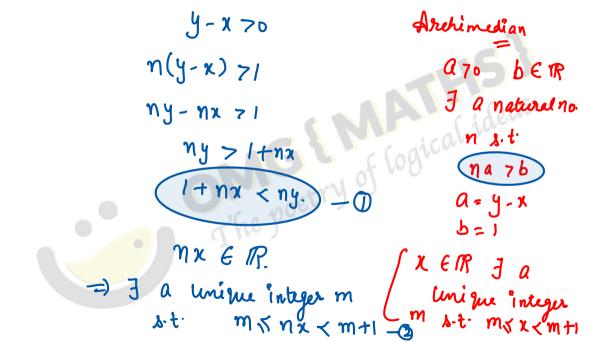
Density Theorem : Proof Between any two distinct real numbers there is always a grational number. (0r) W x, y E IR , X < y 3 r EQ ふせ れくかくな x, y are two distinct real No. xxy 1 x70



$$m \leq n\chi$$

$$m \leq n\chi$$

$$m + i \leq n\chi + i < ny \quad (from 0)$$

$$m + i < ny \quad -3$$

$$n\chi < m + i \quad -6 \quad (from 2)$$

$$from \quad (3) \quad and \quad (4)$$

$$n\chi < m + i \quad < ny$$

$$\chi < \frac{m + i}{n} < y$$

