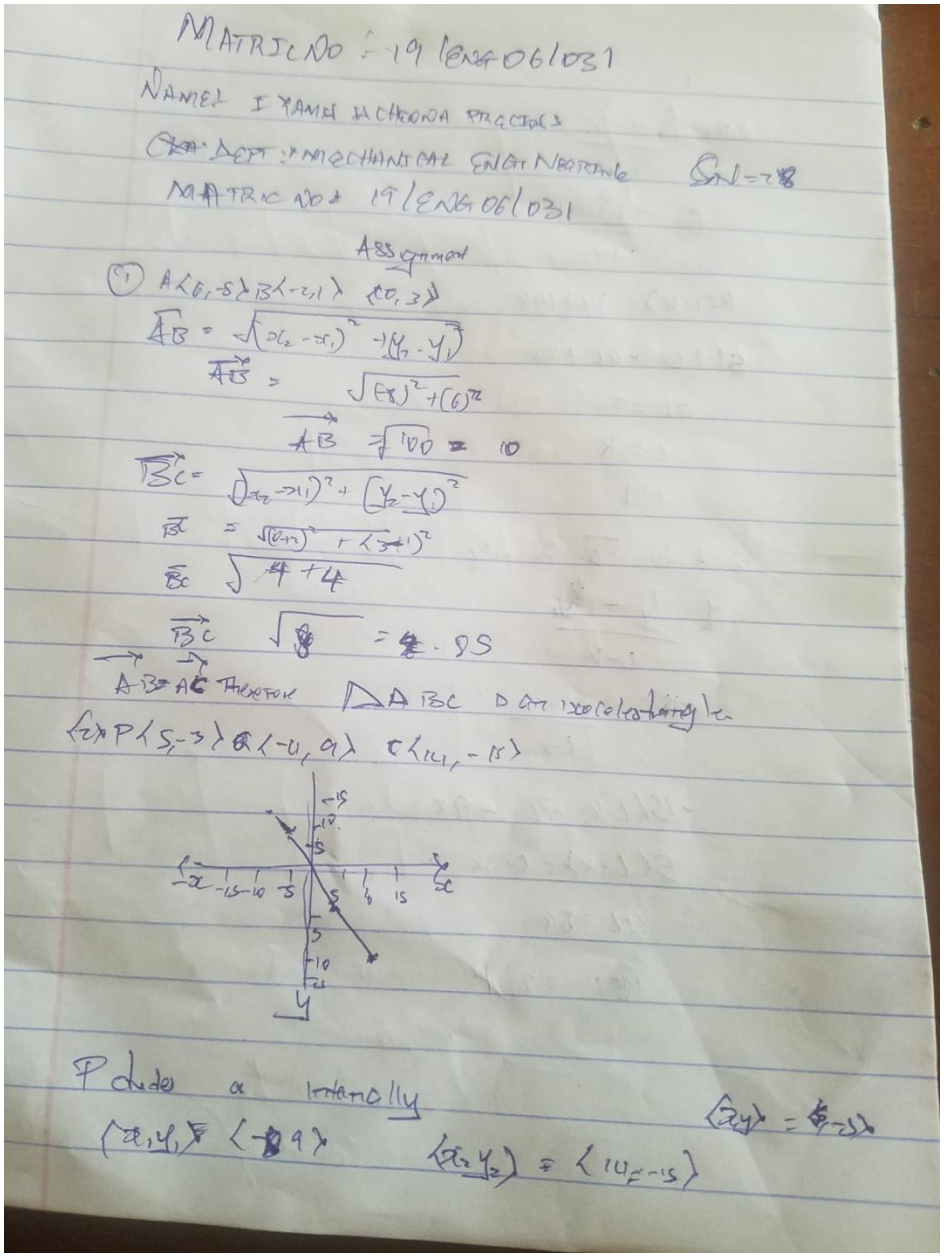
IYAMU UCHENNA PRECIOUS

MECHANICAL ENGINEERING

SN 28

MAT102

19/ENG06/031



$x = \frac{l_{x_1} + l_{x_2}}{1+k}$

$5 = \frac{4L + 14k}{1+k}$

$5(1+k) = 4L + 14k$

$5L + 5k = 4L + 14k$

$9L = 9k$

$L = k$

$1 : 1$

R divides $\overline{PQ}$ externally

$y = \frac{ly_1 - ky_2}{1-k}$

$-15 = \frac{3L - 9k}{1-k}$

$-15(1-k) = 3L - 9k$

$5(1-k) = L + 3k$

$4L = 8k$

$\frac{k}{L} = \frac{2}{1}$