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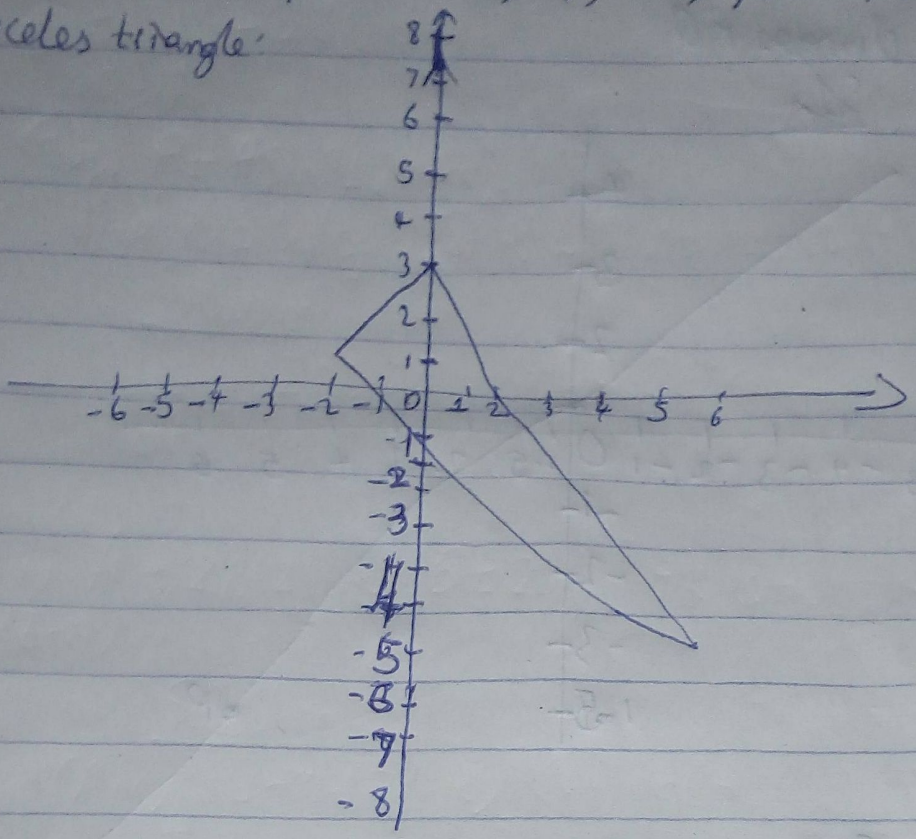
Course: Mat 102
Matric No. 19/ENG09/018

Assignment

1) Show that the point A(6, -5), B(-2, 1), C(0, 3) form an Isoceles triangle.



The distance between point AC $= \sqrt{(0-6)^2+(3-(-5)^2}$

$= \sqrt{36+64}$

$= \sqrt{100}$

$= 10$

Between Point AB $= \sqrt{(-2-6)^2+(1-5)^2}$

$= \sqrt{8^2+36}$

$= \sqrt{100}$

$= 10$

Between Point BC $= \sqrt{(0-(-2)^2+(3-1)^2}$

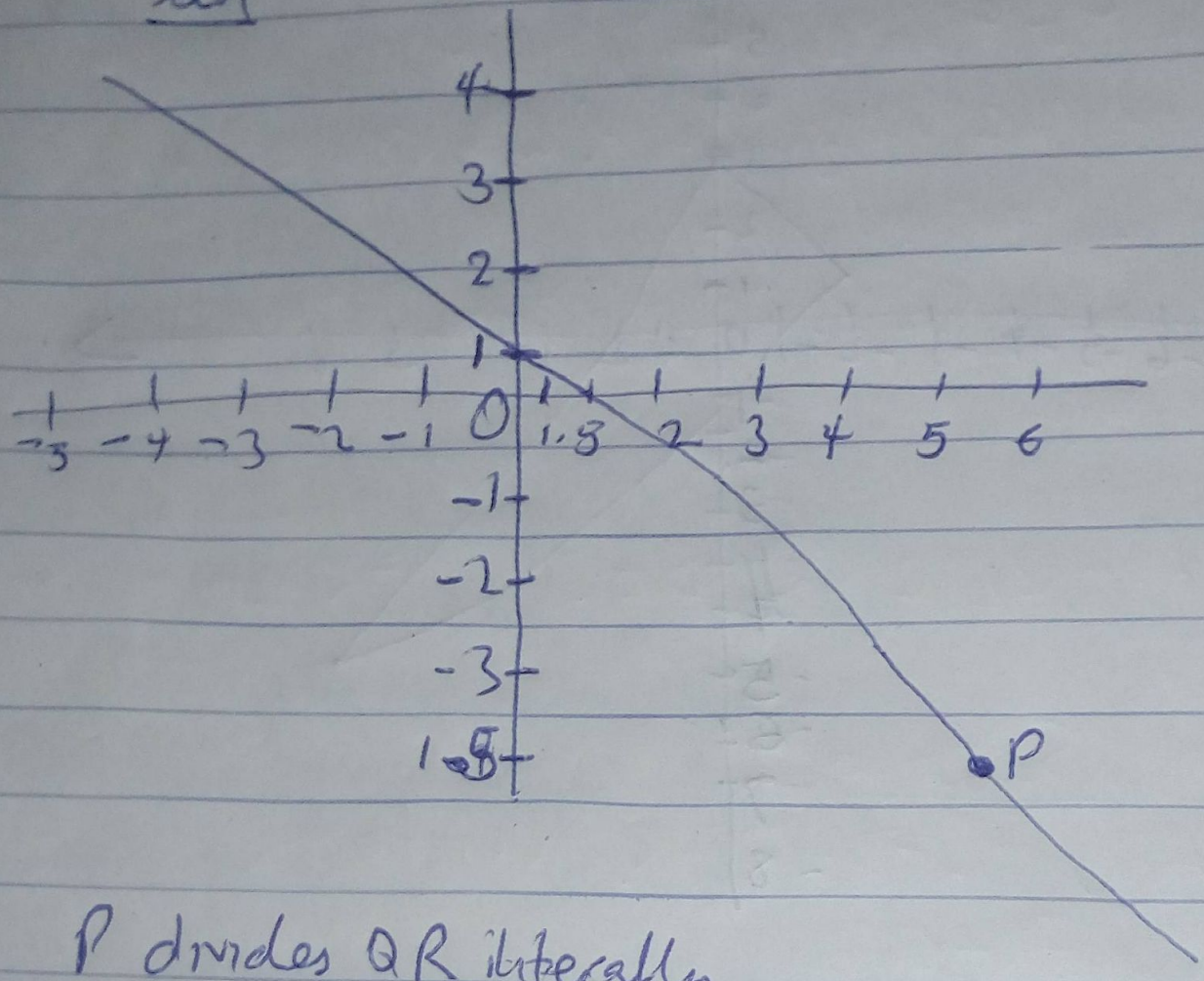
$= \sqrt{4+4}$

$= \sqrt{8}$ ∴ The point A(6,5), B(-2,1) and C(0,3) from

on isoceles triangle because both lines are equal.

2) If P, Q and R are Points (5,-3), (-4,9) and ((1
respectively, find the ratio in which
a) P divides QR
b) R divides PQ

Soln



P divides QR internally

$Q = (x, y)\ x_1 = -4$

$R = (x_2, y_2)\ x_2 = 14$

$P = (x_3, y_3)\ x = 5$