Ques: Write the formula between the angle of two plane.

Ans The formula of between the angle of two planes in Cartesian Plane.

$$\therefore A_1x + B_1y + C_1z + D_1 = 0$$

$$A_2x + B_2y + C_2z + D_2 = 0.$$

The equation of two planes aligned to each other of an angle θ. where is A_1, B_1, C_1 and

Date.....

A_2, B_2, C_2 are the direction ratios of normal to the planes.

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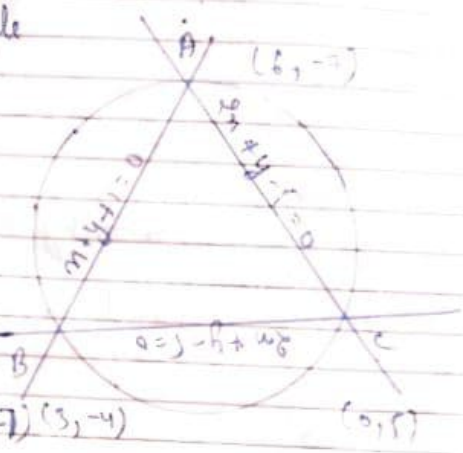
Que 6 :-

Ans

Sides of triangle

$x + y + 1 = 0$
$3x + y - 5 = 0$
$2x + y - 5 = 0$



eq. (i), (ii) & (iii)

Δ, as $(3, -4)$, $(0, 5)$ & $(6, -7)$ $(3, -4)$

$x^2 + y^2 + 2gx + 2fy + c = 0$ ——— (1)

$\therefore$

$25 + 6g - 8f + c = 0$ ——— (2)
$25 + 16f + c = 0$ ——— (3)
$85 + 12g - 14f + c = 0$ ——— (4)

from (2) − (3) :-

$6g - 18f = 0 \Rightarrow g = 3f$ ——— (5)

from (4) − (3) = $60 + 12g - 24f = 0 \Rightarrow g - 2f + 5 = 0$ ——— (6)

Date

putting the value of g from eq. (5) in (6)

$3f - 2f + 5 = 0 \Rightarrow f = -5$

$g = 3f = 3 \times (-5) = -15$