

SUBJECT: Mathematics EXAM II - Annual 2022 CLASS: II-Y
 GROUP: Art DATE: 07-12-22

(GENERAL INSTRUCTIONS FOR MARKING KEY)

Q.4(i) $3x - 2y \geq 6$

$3x - 2y = 6$

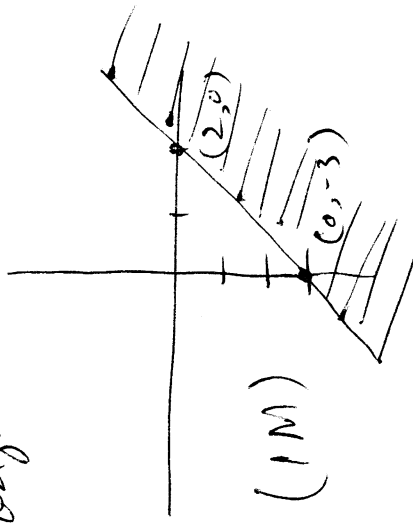
x-intercept $(2, 0)$

y-intercept $(0, -3)$

Test will be false

shade is outside

The origin. (1M)



(ii) Correct def. (2M)

(iii) $A(3, 2)$ $B(5, 6)$

$(x - x_1)(x - x_2) + (y - y_1)(y - y_2) = 0$

$(x + 3)(x - 5) + (y - 2)(y + 6) = 0$

$x^2 - 2x - 15 + y^2 + 4y - 12 = 0$

$x^2 + y^2 - 2x + 4y - 27 = 0$ (2M)

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(iv) $x^2 + y^2 = 25$ at $(4, 3)$

Centre $(-8, -f) = (0, 0)$

As $xx_1 + yy_1 + c \neq 0$

$xx_1 + yy_1 + c - 25 \neq 0$

As $(y - y_1)x_1 = (x - x_1)y_1$

$(y - 3)4 = (x - 4)3$

$4y - 12 = 3x - 12$

$3x - 4y = 0$ (2M)

(v) $x^2 = 4(y - 1)$

$x^2 = 4y$ $x = x$

$y = y - 1$

By Comparing

$4a = 4$

$a = 1$

Focus $X = 0, Y = a$

$x = 0, y - 1 = 1$

$y = 2$

$(0, 2)$ (1M)

Direction $y = -a$

$y - 1 = -1$

$y = 0$ (1M)