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Nombre del trabajo: actividad

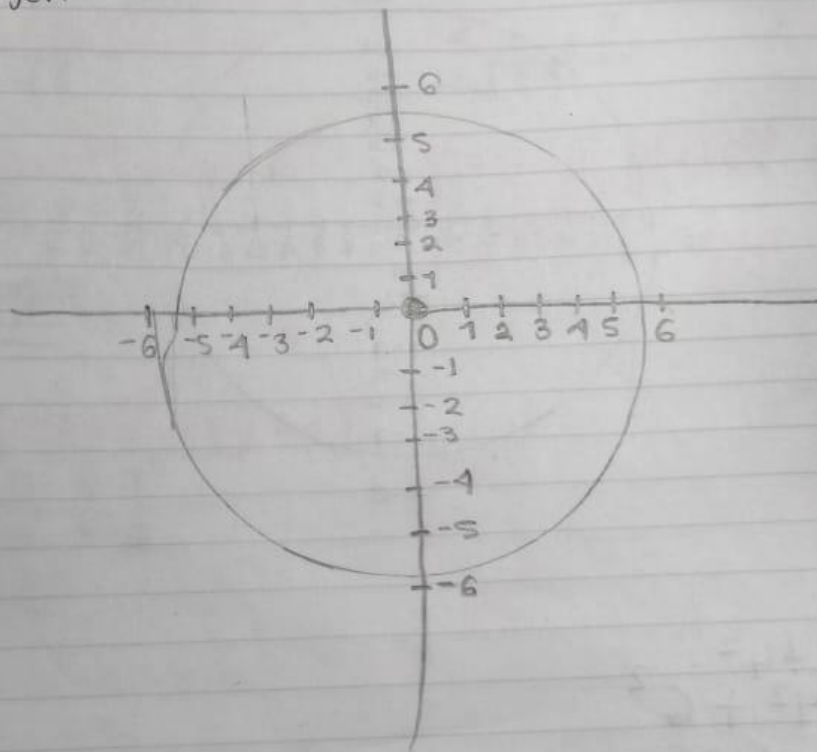
Materia:

Grado: 3ro

Grupo: A

TAREA DE PLATAFORMA

1. Determina la ecuación de las circunferencias situadas al origen



$$r^2 = x^2 + y^2$$

$$r^2 = 4^2 + 4^2$$

$$r^2 = 16 + 16$$

$$r^2 = \underline{\underline{32}}$$

Dadas las ecuaciones de la circunferencia, obtén el valor del radio

$46 = x^2 + y^2$
 $r = \sqrt{46}$

$34 = x^2 + y^2$
 $r = \sqrt{34}$

$25 = (x+3)^2 + (y-4)^2$
 $r = \sqrt{3^2 + 4^2}$
 $r = \sqrt{9 + 16}$
 $r = 25 //$

$50 = (x-5)^2 + (y+6)^2$
 $r = \sqrt{5^2 + 6^2}$
 $r = \sqrt{25 + 36} \quad r = 61$

$49 = (x+1)^2 + (y-1)^2$
 $r = \sqrt{1^2 + 1^2}$
 $r = \sqrt{1 + 1}$
 $r = 2 //$

3. Determina las coordenadas del centro de las siguientes ecuaciones de circunferencia

$46 = x^2 + y^2$
 $(-1, -1)$

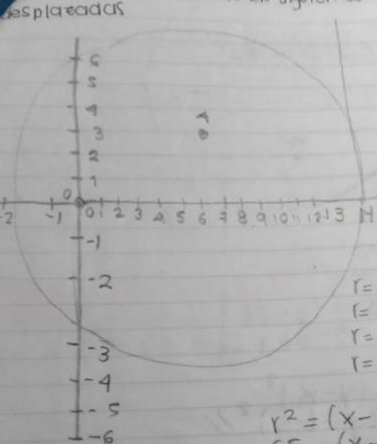
$34 = x^2 + y^2$
 $(-1, -1)$

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

$50 = (x-5)^2 + (y+6)^2$
 $(5, -6)$

$49 = (x+1)^2 + (y-1)^2$
 $(-1, 1)$

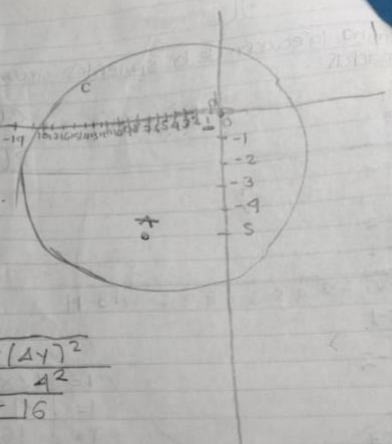
Determina la ecuación de las siguientes circunferencias pasadas por los puntos



$C(6, 3)$
 $P(2, 10)$

$r = \sqrt{(\Delta x)^2 + (\Delta y)^2}$
 $r = \sqrt{4^2 + 7^2}$
 $r = \sqrt{16 + 49}$
 $r = \sqrt{65}$

$r^2 = (x-h)^2 + (y-k)^2$
 $65 = (x-6)^2 + (y-3)^2 //$



$C(-8, -5)$
 $P(2, -9)$

$r = \sqrt{(\Delta x)^2 + (\Delta y)^2}$
 $r = \sqrt{6^2 + 4^2}$
 $r = \sqrt{36 + 16}$
 $r = \sqrt{52}$

$r^2 = (x-h)^2 + (y-k)^2$
 $52 = (x-(-8))^2 + (y-(-5))^2 //$

5. convierte de la ecuación ordinaria a la general

$$25 = (x+3)^2 + (y-4)^2$$

$$25 = x^2 + 6x + 9 + y^2 - 8y + 16$$

$$x^2 + y^2 + 6x - 8y = 0$$

$$50 = (x-5)^2 + (y+6)^2$$

$$50 = x^2 - 10x + 25 + y^2 + 12y + 36$$

$$x^2 + y^2 - 10x + 12y + 11 = 0$$

$$49 = (x+7)^2 + (y-1)^2$$

$$49 = x^2 + 2x + 1 + y^2 - 2y + 1$$

$$x^2 + y^2 + 2x - 2y - 47 = 0$$

Convierte de la ecuación general a ordinaria

$$x^2 + y^2 - 4x - 6y = 89$$

$$x^2 - 4x + 4 + y^2 - 6y + 9 = 89 + 4 + 9$$

$$(x-2)^2 + (y-3)^2 = 52$$

$$x^2 + y^2 + 8x + 4y = 81$$

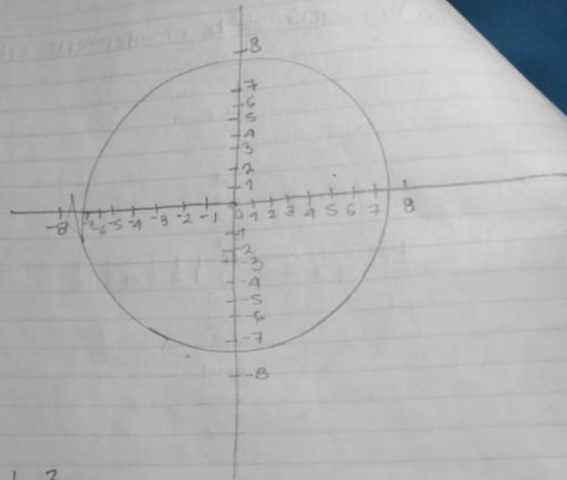
$$x^2 + 8x + 16 + y^2 + 4y + 4 = 81 + 16 + 4$$

$$(x+4)^2 + (y+2)^2 = 101$$

$$x^2 + y^2 + 10x - 4y = -3$$

$$x^2 + 10x + 25 + y^2 - 4y + 4 = -3 + 25 + 4$$

$$(x+5)^2 + (y-2)^2 = 26$$



$$r^2 = x^2 + y^2$$

$$r^2 = -4^2 + 6^2$$

$$r^2 = 16 + 36$$

$$r^2 = 52 //$$

←