UDS

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Actividad: Problemas a Resolver.

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Grado: 3er cuatrimestre.

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GEOMETRÍA ANALITICA

Geometria

C (3,7) r = 4

$(x-h)^2 + (y-k)^2 = r^2$
$(x-3)^2 + (y-7)^2 = r^2$
$(a+b)^2 = a^2 + 2ab + b^2$

$x^2 - 2(x)(3) - 9 + y^2 - 2(y)(7) - 49 = 16$
$x^2 - 6x - 9 + y^2 - 14y - 49 = 16$
$x^2 + y^2 + 6x - 14y + 9 + 49 - 16 = 0$
$x^2 + y^2 - 6x - 14y + 42 = 0$

C (1, -10) r = 7

$(x-h)^2 + (y-k)^2 = r^2$
$(x-1)^2 + (y-10)^2 = 7$
$(a+b)^2 = a^2 + 2ab + b^2$

$x^2 - 2(x)(1) - 1 + y^2 - 2(y)(10) - 100 = 49$
$x^2 - 2x - 1 + y^2 - 20y - 100 = 49$
$x^2 + y^2 + 2x - 20y + 1 + 100 - 49 = 0$
$x^2 + y^2 - 2x - 14y + 52 = 0$

C (3, 6) r = 5

$(x-h)^2 + (y-k)^2 = r^2$
$(x-3)^2 + (y-6)^2 = 5^2$
$(a+b)^2 = a^2 + 2ab + b^2$

$x^2 - 2(x)(3) - 9 + y^2 - 2(y)(6) - 36 = 25$
$x^2 - 6x - 9 + y^2 - 12y - 36 = 25$
$x^2 + y^2 + 6x - 12y + 9 + 36 - 25 = 0$
$x^2 + y^2 - 6x - 12y + 20 = 0$

C (5, 6) r = 6

$(x-5)^2 + (y-6)^2 = 6^2$
$x^2 - 2(x)(5) - 25 + y^2 - 2(y)(6) - 36 = 36$
$x^2 - 10x - 25 + y^2 - 12y - 36 = 36$
$x^2 + y^2 + 10x - 12y + 25 + 36 - 36 = 0$
$x^2 + y^2 - 10x - 14y + 25 = 0$

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