LDDR Niveau 1: TE 9 Geometrie Plan

1MG Level 1 2017-06-16

PLANE GEOMETRY

60 mn

Name:

With calculator. Indicate your computations

EXERCISE 1

[/3]

Give the equation of the smallest circle that passes through the points A(-5;4) and B(11;-26).

EXERCISE 2

[/4]

Find the intersection points of the circle $(x-2)^2 + (y+1)^2 = 5$ with the line y+3=0.

EXERCISE 3

[/2]

Determine the measure of the angle between $\binom{-2}{5}$ and $\binom{4}{-1}$.

EXERCISE 4

[/5]

We consider the line d: 3x - 4y + 100 = 0 and the circle $c: x^2 + 2x + y^2 - 8y - 139.25 = 0$.

Determine the equations of the lines that are perpendicular to d and tangent to c.

EXERCISE 5

[/5]

ABC is an isosceles triangle with basis AB and area 125.

Find the possible coordinates of the point C given A = (-13, -11) and B = (-6, 13).