

Mathematics II Midterm Exam (A)

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Complete the following

- (1) The locus of a point P(x, y) which moves such that its distance from (0, 2) is equal to the distance from the x-axis is
- (2) When the axis transfer at (2,3) the equation of the circle $x^2 + y^2 - 4x - 6y - 3 = 0$ becomes
- (3) When the axis rotate by an angle 45° the equation $x^2 - y^2 = 8$ becomes
- (4) The equation of the circle which center at (5,4) and touch x-axis is
- (5) The angle between the lines $3x^2 + 8xy - 3y^2 + 2x - 4y + 12 = 0$ is.....
- (6) The equation of the bisectors for the angle between the lines $3x^2 + 8xy - 3y^2 = 0$ is
- (7) The curve $r = 2\cos\theta + \cos 2\theta$ symmetric about
- (8) The equation $(x^2 + y^2)^2 = 2a^2xy$ transfer to polar coordinates becomes
- (9) The equation of the straight line which intercept x-axis by 4 and y-axis by 5 is.....
- (10) The center of the circle $x^2 + y^2 - 4x - 6y - 3 = 0$ at its radius=.....
- (11) If the equation of a circle is $ax^2 + (2a-3)y^2 - 4x - 1 = 0$ then its center is.....
- (12) The equation of the circle whose its diameter is PQ, where P(2,-2), Q(-2,2) is