

Class Discussion

Unit 9 Topic 1 Part 1 Circle

Equation of a circle with center at (h,k) is $(x-h)^2 + (y-k)^2 = r^2$

Ex 1: if a circle is $x^2 + y^2 - 4x - 4y = 1$, find

(1) standard form

(2) center and radius

(3) x- and y-intercepts

(4) graph

Ex2: Given a circle $C_1 : (x+3)^2 + y^2 = 4$ and a point $P(-2, \sqrt{3})$ on C_1 . Find all possible circle C_2 with radius of 3 intersecting C_1 at exactly one point P.