

1
The distance capability of the KN-14 missile is 8 thousand km from north korea which is the center.
Give me the circle of this analysis on mathematica and give me the standard form of the equation

2 Find the standard form of the equation for the circle described below.

Center (-6, -2) and radius 2

Using mathematica show code and graph.

Consider the equation below.

$$(x-9)^2 + (y-7)^2 = 36$$

Step 1. Find the center (h, k), of this circle.

Step 2. Find the radius, r, of this circle.

Step 3. Graph the circle.

Using mathematica show code and graph.

$$(h,k) = r =$$

4

Consider the equation below.

$$x^2 + y^2 - 10x + 18y = -42$$

Step 1. Find the center (h, k), of this circle.

Step 2. Find the radius, r, of this circle.

Step 3. Graph the circle.

Using mathematica show code and graph.

Completing the square

use the circle formula

$$(x-h)^2 + (y-k)^2 = r^2$$

5

Find the standard form of the equation for each of the following circles:

a. A circle with a diameter whose endpoints are (-4, -1) and (2, 5).

Then

Standard Form of a Circle

The standard form of the equation for a circle of radius r with center (h, k) is

$$(x-h)^2 + (y-k)^2 = r^2.$$

$$(h,k) = and r =$$