## **Unit 6.5**

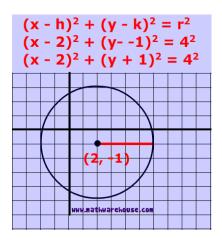
## **Equations of Circles**

## **Equations of circle:**

The standard equation of a circle with radius r and center (h, k).

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

An example is shown at the right:



Given center of circle and point on circle, find radius Use distance between two points formula:

$$distance \ (radius) = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$