

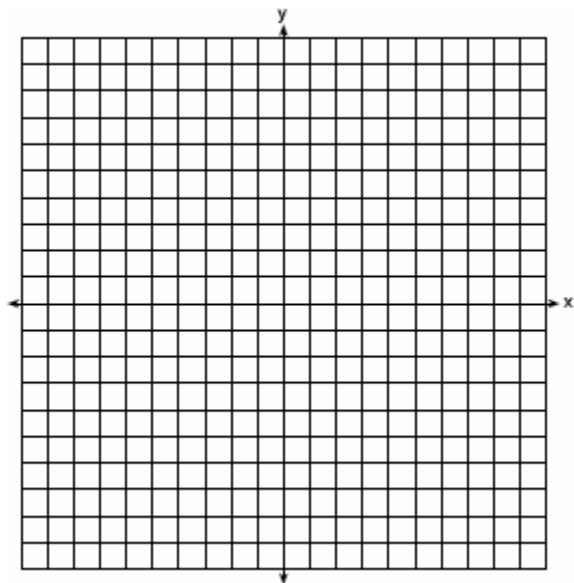
NAME: _____

G.G.74: Graph circles of the form $(x-h)^2+(y-k)^2=r^2$

1. 010133a, P.I. G.G.74

John uses the equation $x^2 + y^2 = 9$ to represent the shape of a garden on graph paper.

a Graph $x^2 + y^2 = 9$ on the accompanying grid.



b What is the area of the garden to the nearest square unit?

G.G.74: Graph circles of the form $(x-h)^2+(y-k)^2=r^2$

a [2] The student draws a circle with its center at (0,0) and a radius of 3.

[1] The student draws a circle, but it has an incorrect center or radius.

b [2] 28, and appropriate work or the expression 9π is shown, which rounds to 28.

or [2] An appropriate area is shown for the incorrect figure in part a.

[1] The correct expression is shown, but the answer is left as 9π , not rounded, or not rounded correctly.

or [1] An incorrect radius is used, but the area is rounded appropriately.

a and b [0] A zero response is completely incorrect, irrelevant, or incoherent or is a correct response that was obtained by an

[1] obviously incorrect procedure.