

Baniyas City School

Gr 11ADV

Math

Equation of circles

Name: _____

Date : _____

Finding Circles in Standard Form:

$$x^2 + y^2 + 6x - 8y - 11 = 0$$

$$(x^2 + 6x) + (y^2 - 8y) = 11$$

$$(x^2 + 6x + 9) + (y^2 - 8y + 16) = 11 + 9 + 16$$

$$(x + 3)^2 + (y - 4)^2 = 36$$

Center: $(-3, 4)$ Radius: 6