



## Equations of Circles

Math Blast



Name

Score

Find the equations of circles and show all steps.

Center (0, 0)      Radius = 5

Center (-7, 3)      Radius = 5

Center (10, -1)      Radius = -4

Center (4, -1)      Point on the circle (-3, 8)

(-8, 7) and (24, 11) are endpoints of the diameter



Find the equations of circles and show all steps.

$$x^2 + y^2 = 25$$

$$(x + 7)^2 + (y - 3)^2 = 25$$
$$x^2 + y^2 + 14x - 6y + 33 = 0$$

No such circle exists

$$(x - 4)^2 + (y + 1)^2 = 130$$
$$x^2 + y^2 - 8x + 2y - 113 = 0$$

$$(x - 8)^2 + (y - 9)^2 = 260$$
$$x^2 + y^2 - 16x - 18y - 115 = 0$$