

Homework #3

Textbook P21 #9, 11, 13, and p22 # 71, 73, 75, 80, 81

Complete in your notes. Due Monday 8/19

Determine whether each point lies on the graph of the equation.

9. $y = x^2 - 3x + 2$ 11. $y = |x - 1| + 2$ 13. $x^2 + y^2 = 20$
(a) (2, 0) (b) (-2, 8) (a) (2, 3) (b) (-1, 0) (a) (3, -2) (b) (-4, 2)

Write the equation of a circle in standard form.

71. *center* : (2, -1) *Radius* : 4

73. *center* : (-1, 2) *solution point* : (0, 0)

75. *End points of a diameter* : (0, 0), (6, 8)

Find the center and radius of the circle and sketch its graph.

80. $x^2 + (y - 1)^2 = 1$

81. $\left(x - \frac{1}{2}\right)^2 + \left(y - \frac{1}{2}\right)^2 = \frac{9}{4}$