

See the Your Turn problems below:



### ***Your Turn***

a) Identify the center and radius of this circle:

$$(x + 2)^2 + (y - 7)^2 = 4.41$$

b) Write the equation of the circle:  $(x - 9)^2 + (y + 6)^2 = 4$   
translated 2 units left and 3 units up.

c) Write the equation of a circle that has a diameter with endpoints at (-10,14) and (2,-6).

d) Write this equation for a circle in standard form:

$$12 + y^2 + x^2 + 6y + 4x = 0$$

e) Write this equation for a circle in standard form:

$$6x + x^2 = -16 - y^2 + 8y$$

In addition, complete problems #7-25 (odd) on page 643.