Graphs of Equations in Two
Variables; Circles

1. Write the standard form of the
equation and the general form of the
equation of each circle of radius r and
center (h, k). Graph each circle:
(Similar to p.21 #83-92)

$$r = 4; \quad (h,k) = (3,-1)$$

2. (a)Find the center (h, k) and radius r
of each circle; (b) graph each circle; (c)
find the intercepts, if any
(Similar to p.21 #93-106)

$$4(x+3)^2 + 4(y-2)^2 = 8$$

3. (a)Find the center (h, k) and radius r
of each circle; (b) graph each circle; (c)
find the intercepts, if any
(Similar to p.21 #93-106)

$$x^2 + y^2 - 4x + 6y + 9 = 0$$

4. (a)Find the center (h, k) and radius r
of each circle; (b) graph each circle; (c)
find the intercepts, if any
(Similar to p.21 #93-106)

$$x^2 + y^2 + x - 4y + \frac{13}{4} = 0$$

5. (a)Find the center (h, k) and radius r
of each circle; (b) graph each circle; (c)
find the intercepts, if any
(Similar to p.21 #93-106)

$$9x^2 + 9y^2 + 6x + 6y - 79 = 0$$