STANDARD FORM OF A CIRCLE

Date_____ Period____

Use the information provided to write the standard form equation of each circle.

1) $x^2 + y^2 - 14x + 30y + 273 = 0$

2) $x^2 + y^2 - 24x + 22y + 264 = 0$

3) $x^2 + y^2 + 8x + 8y - 2 = 0$

4) $x^2 + y^2 + 26x - 10y + 160 = 0$

5) $x^2 + y^2 - 16x - 8y + 30 = 0$

6) $x^2 + y^2 + 22x - 8y + 121 = 0$

STANDARD FORM OF A CIRCLE

Date_____ Period____

Use the information provided to write the standard form equation of each circle.

1) $x^2 + y^2 - 14x + 30y + 273 = 0$

$(x - 7)^2 + (y + 15)^2 = 1$

2) $x^2 + y^2 - 24x + 22y + 264 = 0$

$(x - 12)^2 + (y + 11)^2 = 1$

3) $x^2 + y^2 + 8x + 8y - 2 = 0$

$(x + 4)^2 + (y + 4)^2 = 34$

4) $x^2 + y^2 + 26x - 10y + 160 = 0$

$(x + 13)^2 + (y - 5)^2 = 34$

5) $x^2 + y^2 - 16x - 8y + 30 = 0$

$(x - 8)^2 + (y - 4)^2 = 50$

6) $x^2 + y^2 + 22x - 8y + 121 = 0$

$(x + 11)^2 + (y - 4)^2 = 16$