Review Assorted Conics 1 NAME_____

Classify each conic section as circle, ellipse, parabola, hyperbola or none of these.

_____ 1. $x^2+(y-3)^2=9$

_____ 2. $16x^2-9y^2=144$

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

_____ 4. $(x+4)^2+(y-1)^2=7$

_____ 5. $\frac{(y-2)^2}{4}-\frac{(x+3)^2}{9}=1$

_____ 6. $x^2-4x+y^2+6y-5=0$

_____ 7. $y^2-4x^2+32x-6y+1=80$

_____ 8. $y^2+2y+2x-1=0$

_____ 9. $\frac{(x-1)^2}{9}+\frac{(y-3)^2}{25}=1$

_____ 10. $\frac{(y-2)^2}{25}-\frac{(x+3)^2}{4}=1$

_____ 11. $x^2+y^2-18x-18y+53=0$

_____ 12. $4x^2+9y^2+24x-90y=-225$

_____ 13. $x^2-4y^2-4x+24y-36=0$

_____ 14. $3x^2+3y^2+18x-6y+3=0$

_____ 15. $\frac{(x+3)^2}{9}+\frac{(y-5)^2}{4}=1$

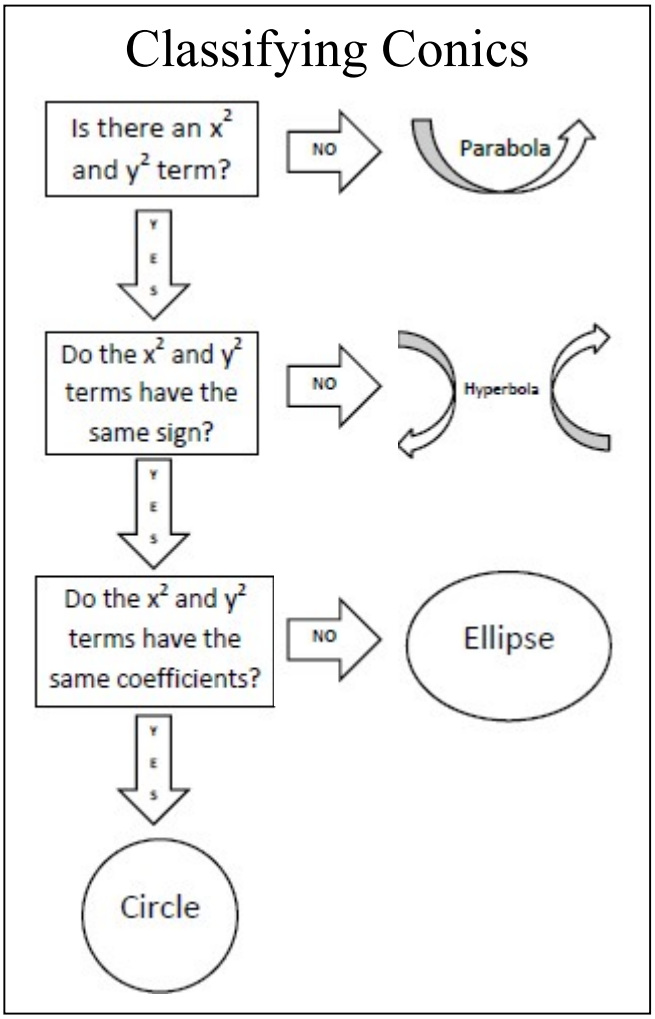
_____ 16. $(y+4)^2=12(x+1)$

_____ 17. $9x^2-4y^2+36x-8y-40=0$

_____ 18. $9x^2+4y^2+36x-8y+4=0$

_____ 19. $9x^2-8y-40=-4y^2+36x$

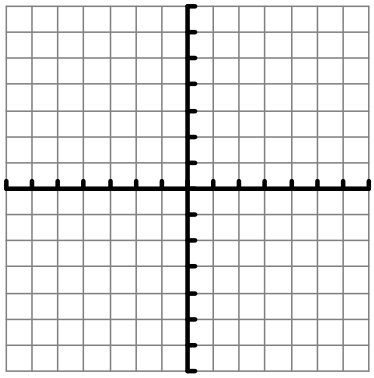
_____ 20. $x^2-18x+53=y^2-18y$



Graph and provide the requested information:

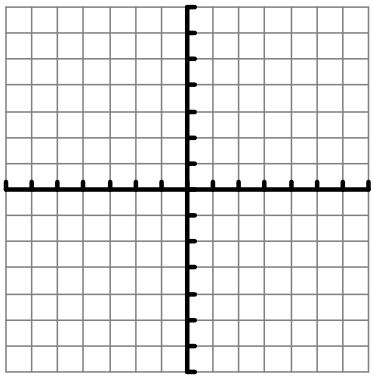
21. $(x-5)^2+(y+2)^2=5$

c = _____
r = _____



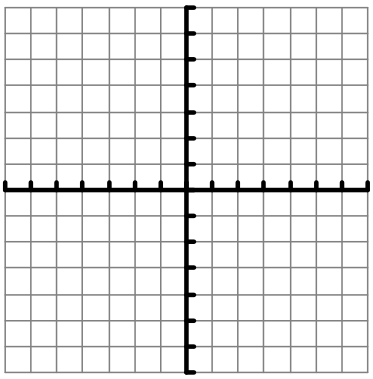
22. $\frac{(x+4)^2}{9}+\frac{(y-2)^2}{4}=1$

c = _____
v = _____ _____
cv = _____ _____
f = _____ _____
major axis length = _____
minor axis length = _____



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

c = _____
v = _____ _____
f = _____ _____
asymptotes = _____
length of transverse axis = _____



24. $y^2=-4(x-3)$

v = _____
f = _____
directrix = _____
length of LR = _____
ends of LR = _____ _____