Honors Math 2
3.5 notes: graphing circles

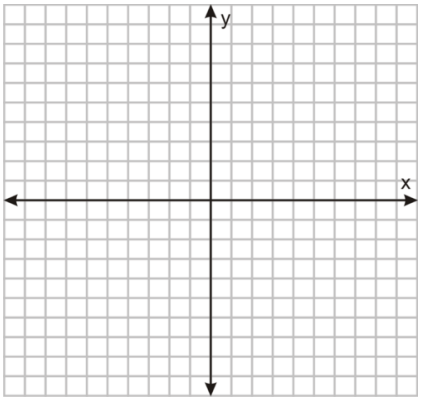
Name_____
Period_____Date_____

Equation of a circle
$(x-h)^2+(y-k)^2=r^2$

(h,k) is the center
r is the radius

Graph.

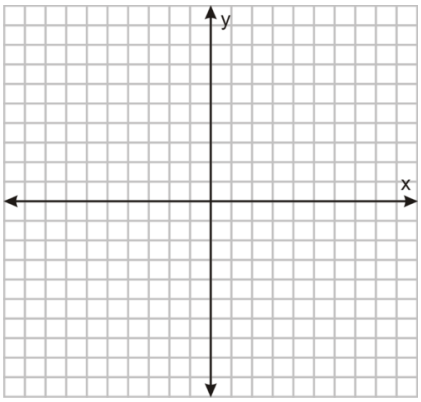
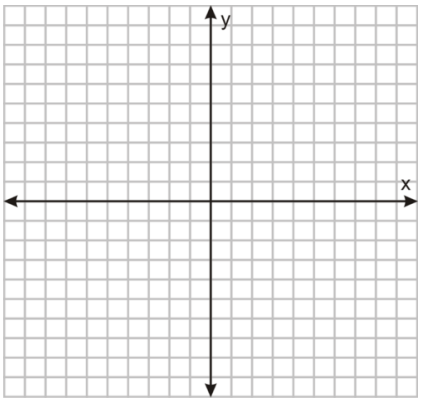
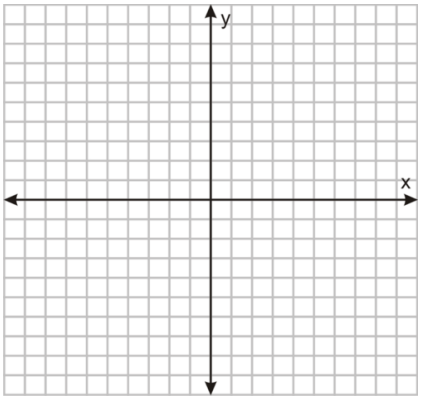
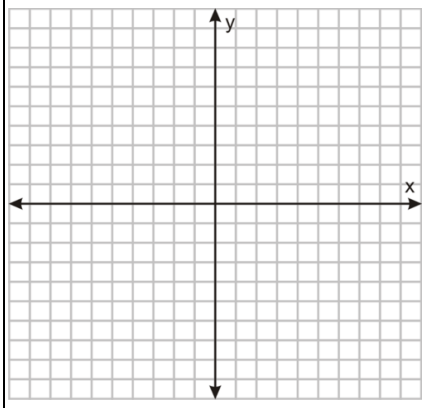
$(x-2)^2+(y+3)^2=25$



Domain:

Range:

Graph. Find the center, radius, domain, and range.

$x^2+y^2=16$ $C(\quad,\quad)$ $r\ =$  Domain: Range:	$(x+1)^2+(y+3)^2=9$ $C(\quad,\quad)$ $r\ =$  Domain: Range:
$x^2+(y-k1)^2=25$ $C(\quad,\quad)$ $r\ =$  Domain: Range:	$(x-5)^2+(y+2)^2=10$ $C(\quad,\quad)$ $r\ =$  Domain: Range:

Write the equation for the circle with the given information.

center: $(-3, 2)$
radius: 4

center: $(4,0)$
diameter: 12

center: $(3, 8)$
point: $(-9, 13)$

End points of diameter:
$(3, 2), (-9, -8)$