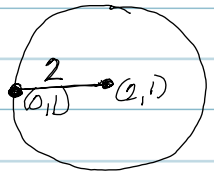
SECTION 2.5 9, 11, 23, 15
2.4 7, 24

2.4 CIRCLES

(7)



$(x-h)^2+(y-k)^2=r^2$

$r=2$

$c=(2,1)$

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

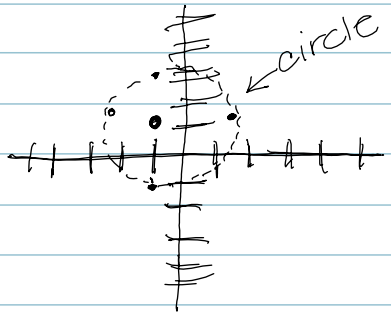
$(x-2)^2+(y-1)^2=4$

(24) $\frac{3(x+1)^2}{3}+\frac{3(y-1)^2}{3}=\frac{6}{3}$ Graph, center, radius, x & y int

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

$c=(-1,1)$

$r=\sqrt{2}$



x-int $\rightarrow y=0$

$(x+1)^2+(0-1)^2=2$

$(x+1)^2+1=2$

$-1 \quad -1$

$(x+1)^2=1$

$x+1=\pm\sqrt{1}=\pm 1$

$x+1=1$, $x+1=-1$

$x=0$ $x=-2$

$(0,0)$ $(-2,0)$

y-int $x=0$

$(0+1)^2+(y-1)^2=2$

$1+(y-1)^2=2$

$-1 \quad -1$

$(y-1)^2=1$

$y-1=\pm\sqrt{1}=\pm 1$

$y-1=1$ $y-1=-1$

$y=2$ $y=0$

$(0,2)$ $(0,0)$