2.4 Equation of the Circle

	At the end of this outcome I should...	I can do	Revised
2.4.1	know that the equation of the circle centre (a,b) and radius r is $(x-a)^2+(y-b)^2=r^2$	❑	❑
2.4.2	know that $x^2+y^2+2gx+2fy+c=0$ represents a circle centre $(-g,-f)$ and radius $\sqrt{(g^2+f^2-c)}$, provided $(g^2+f^2-c)>0$	❑	❑
2.4.3	determine the equation of a circle	❑	❑
2.4.4	solve problems with the intersection of a line and a circle, and a tangent to a circle The line $x-3y=k$ is tangent to $x^2+y^2-6x+8y+15=0$. Find two possible values of k. **	❑	❑
2.4.5	determine whether two circles touch each other	❑	❑

N.B. ** indicates Level A/B content