## Centum Preparation 100 Days plan class 12 Maths

Q.N o.	DAY - 49
301	Example 7.15
	Find the acute angle between the curves $y = x^2$ and $x = y^2$
	at their points of intersection $(0,0),(1,1)$ .
302	Example 7.16
	Find the angle of intersection of the curve $y = \sin x$
	with the positive $x$ -axis.
303	Example 7.17
	If the curves $ax^2 + by^2 = 1$ and $cx^2 + dy^2 = 1$ intersect each other
	orthogonally then, $\frac{1}{a} - \frac{1}{b} = \frac{1}{c} - \frac{1}{d}$ .
304	Example 7.18
	Prove that the ellipse $x^2 + 4y^2 = 8$ and the hyperbola $x^2 - 2y^2 = 4$
	intersect orthogonally.
305	EXERCISE 7.2
	2. Find the point on the curve $y = x^2 - 5x + 4$ at which the tangent is
	parallel to the line $3x + y = 7$ .
306	3. Find the points on the curve $y = x^3 - 6x^2 + x + 3$ where the
	normal is parallel to the line $x + y = 1729$ .
307	4. Find the points on the curve $y^2 - 4xy = x^2 + 5$ for which the
	tangent is horizontal.