

Centum Preparation 100 Days plan class 12 Maths

Q.N o.	DAY - 54
333	<p>Example 7.61</p> <p>Find the local maximum and minimum of the function $x^2 y^2$ on the line $x + y = 10$.</p>
334	<p>Example 7.62</p> <p>We have a 12 square unit piece of thin material and want to make an open box by cutting small squares from the corners of our material and folding the sides up. The question is, which cut produces the box of maximum volume?</p>
335	<p>Example 7.63</p> <p>Find the points on the unit circle $x^2 + y^2 = 1$ nearest and farthest from $(1,1)$.</p>
336	<p>Example 7.65</p> <p>Prove that among all the rectangles of the given area square has the least perimeter.</p>
337	<p>EXERCISE 7.9</p> <p>2. Find two positive numbers whose product is 20 and their sum is minimum.</p>
338	<p>4. A garden is to be laid out in a rectangular area and protected by wire fence. What is the largest possible area of the fenced garden with 40 metres of wire.</p>
339	<p>5. A rectangular page is to contain 24 cm^2 of print. The margins at the top and bottom of the page are 1.5 cm and the margins at other sides of the page is 1 cm. What should be the dimensions of the page so that the area of the paper used is minimum.</p>