	is always one-sixth of the radius of the base. How fast is the height of
Q 7	Find the local maxima and local minima , if any of the function f (x), given by $f(x) = \sin x + \cos x$, $0 < x < \pi/2$.
Q 8	The relation between the height of the plant(y in cm) with respect to exposure to sunlight is governed by the following equation
	$y=4x-\frac{1}{2}x^2$ where x is the number of days exposed to sunlight.
	What will be the rate of growth of the plant with respect to sunlight ?
Q 9	Find the values of x for which $y = [x(x-2)]^2$ is an increasing function
Q10	A wire of length 28 m is to be cut into two pieces. One of the pieces is to be made into a square and the other into a circle. What should be the length of the two pieces so that the combined area of the square and the circle is minimum?
	Space for Rough Work
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