## **Quiz Instructions**

Instructions:	
mod detions.	

Please write it in a papper/pdf and upload via carmen:

Quest	ion 1	20 pts
and 0) f	act a support vector machine that computes the XOR function. Use values of for both inputs and outputs, so that an example looks like ([–1, 1], 1) or ([–1, – a space consisting of $x_1$ and $x_1x_2$ . Draw the four input points in this space or. What is the margin? Now draw the separating line back in the original E	-1], $-1$ ). Map the input [ $x_1$ , and the maximal margin
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Question 2	10 pts
Recall that the equation of the circle in the 2-dimensional plane is $(x_1 - a)^2 + (x_2 - b)^2 - r^2 = 0$ .	
Expand out the formula and show that every circular region is linearly separable from the rest of the in the feature space $(x_1, x_2, x_1^2 x_2^2)$ .	e plane
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