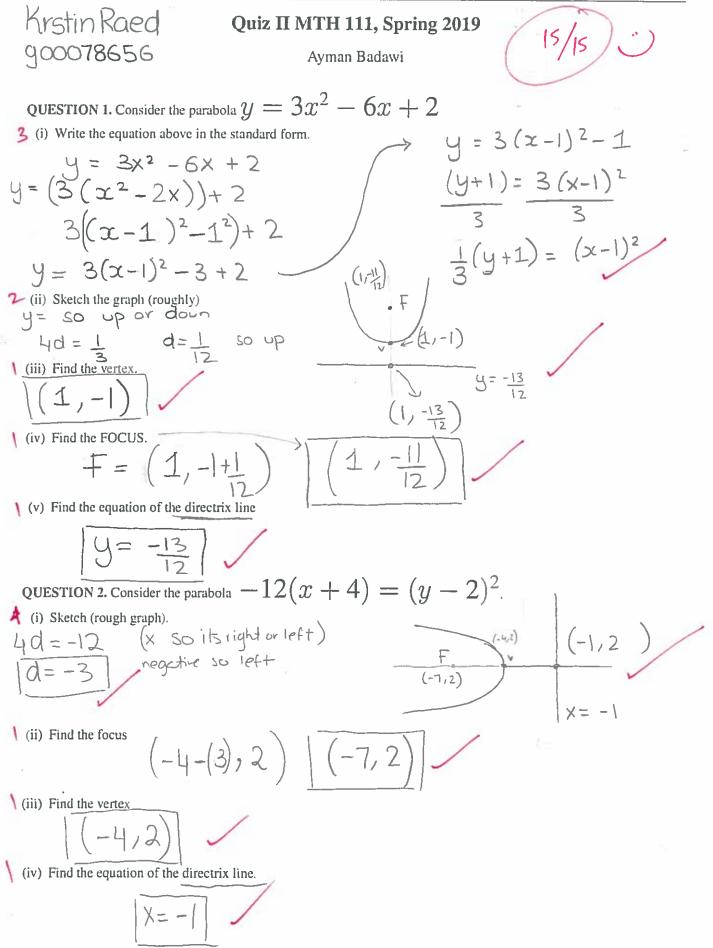
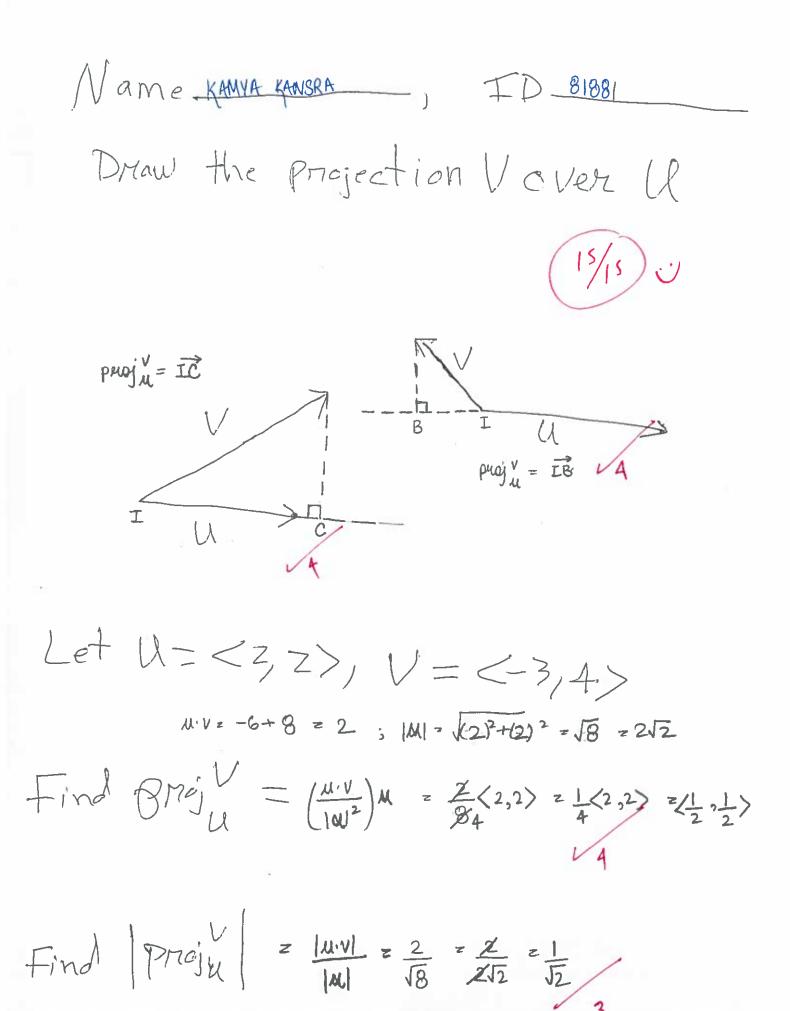


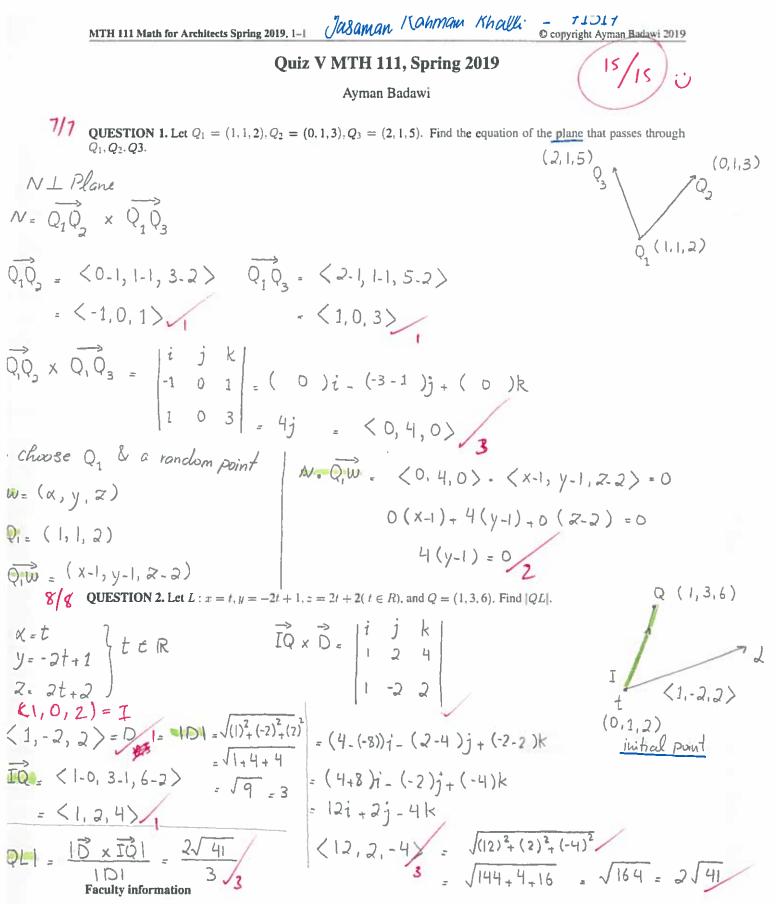
Ayman Badawi, Department of Mathematics & Statistics, American University of Sharjah, P.O. Box 26666, Sharjah, United Arab Emirates, E-mail: abadawi@aus.edu, www.ayman-badawi.com



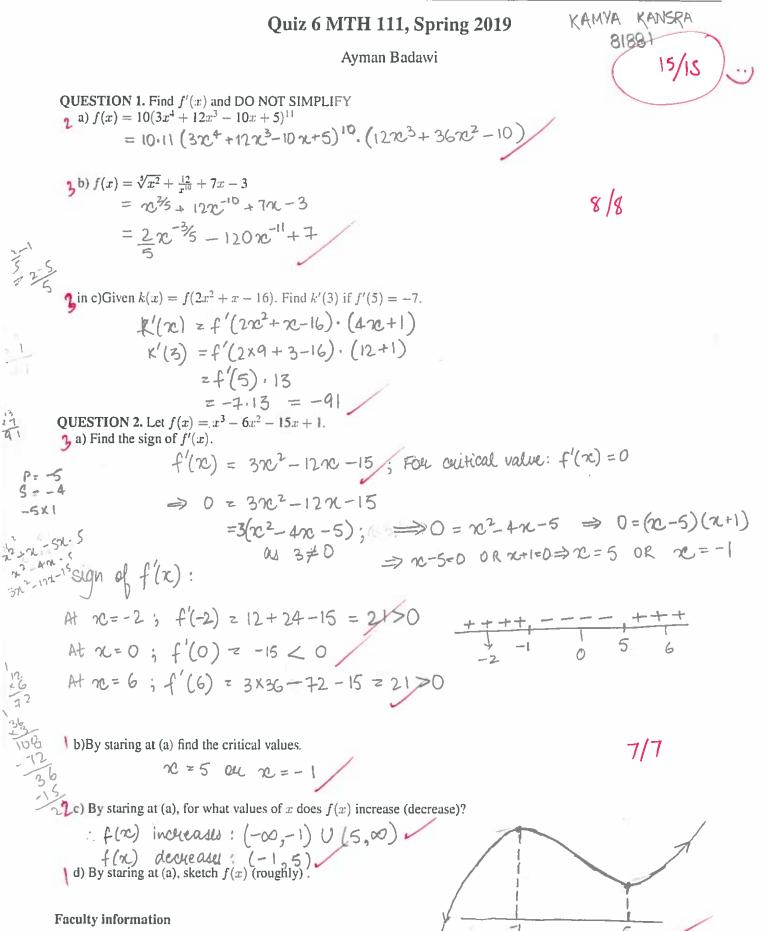
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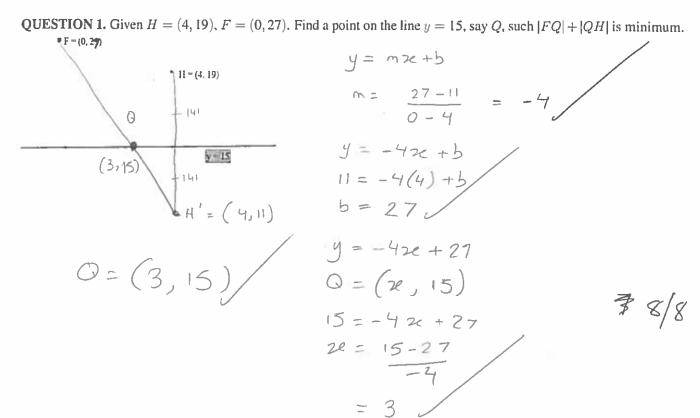


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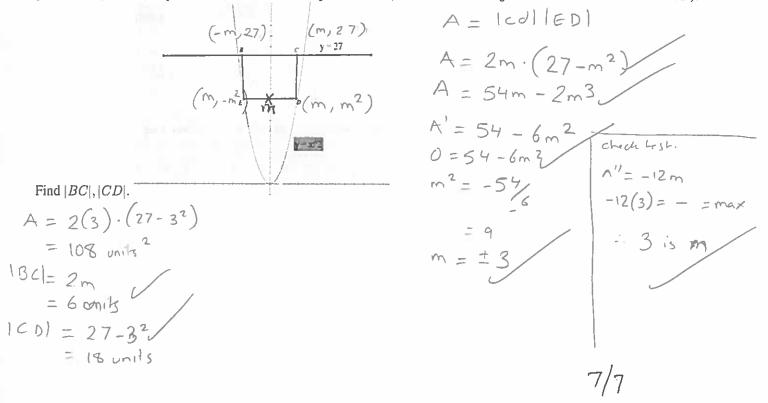
## Quiz 7 MTH 111, Spring 2019

## Ayman Badawi



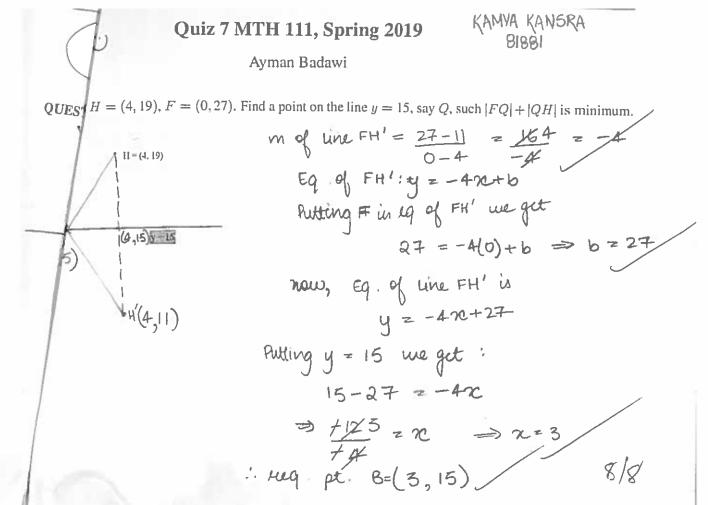


**QUESTION 2.** Consider the following picture. We need to construct a rectangle B, C, D, E with maximum area between y = 27 and  $y = x^2$  (see picture: B, C lie on the line y = 27 and D, E lie are the curve  $y = x^2$ . Also note that mE = mD).

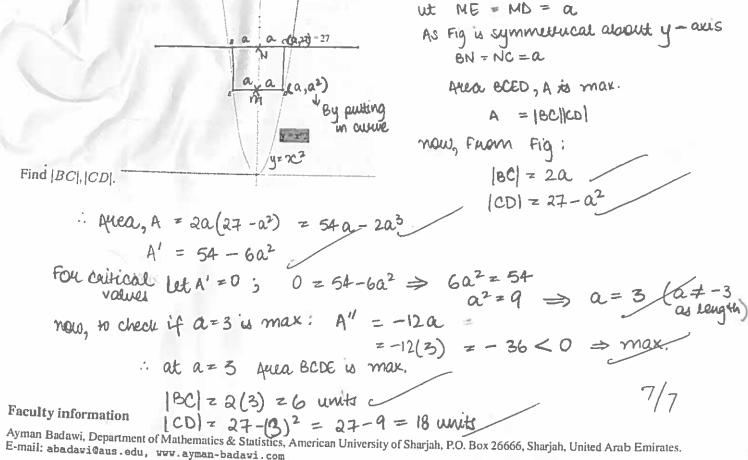


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