MATH 253 – WORKSHEET 18 MORE LAGRANGE MULTIPLIERS

 $(1) \ A large rectangular box without lid is made with <math>12m^2 of wood. What is the largest possible volume?$

(2) Find the angle between the plane x+2y+z=4 and the line parametrized by $\left(\frac{4}{3},\frac{2}{3},\frac{4}{3}\right)+t\left\langle -1,1,2\right\rangle$ where $\left(\frac{4}{3},\frac{2}{3},\frac{4}{3}\right)$ lies on the plane.

 $Date \colon 21/10/2013.$

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