Worksheet 1 $\frac{1}{4}$

Homework & Claim

Dr. M. P. M. M. McLoughlin

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1. (Mr. O'Connor's Claim) Prove or disprove.
Let $g((x, y))$ be a well defined joint probability function.[1] Further let $g_X(x)$ be the marginal probability function and $g_Y(y)$ be the marginal probability function such that μ_X exists and μ_Y exists. It is the case that the point $(E[X], E[Y])$ is the equilibrium point for the solid over the x-y plane.

2. Do problems 1 and 2 on worksheet1$\frac{1}{2}$

3. Do problems 2 and 4 on worksheet3

That is all.

[1] We define joint probability function to mean joint probability mass function when $g((x, y))$ is for discrete random variables but we mean joint probability density function when $g((x, y))$ is for continuous random variables.