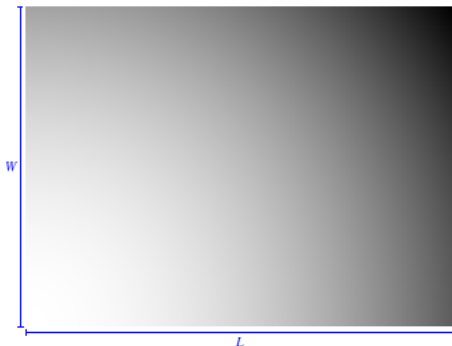


Total from area density

Problem: Charge is distributed on a flat rectangle of dimensions L by W so that the area charge density is proportional to the square of the distance from one corner, reaching a maximum value σ_0 at the far corner. Compute the total charge.

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