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**Dirac Delta Function Potentials**

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The purpose of this research is to find the eigen-functions and bound state energies of a particle subject to a potential consisting of a series of attractive Dirac delta-functions. I started with a symmetric single Dirac delta-function, and found the bound state energyand the wave function I then considered three delta functions that are symmetrically located with respect to the origin. I considered even and odd solutions separately. Finally, I discussed the quintuple delta functions, again considering the even and odd solutions separately. For the even and odd solutions the bound state energies are found numerically.