INDEFINITE STURM-LIOUVILLE

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Recently, we have proved some conjectures related to the generalized eigenvalue problem
\[ \left( -\frac{d^2}{dx^2} + \frac{c}{1+|x|} \right) \psi = \lambda \text{sgn}(x) \psi. \]

**Open problem:** Replace the potential term by a more general function.