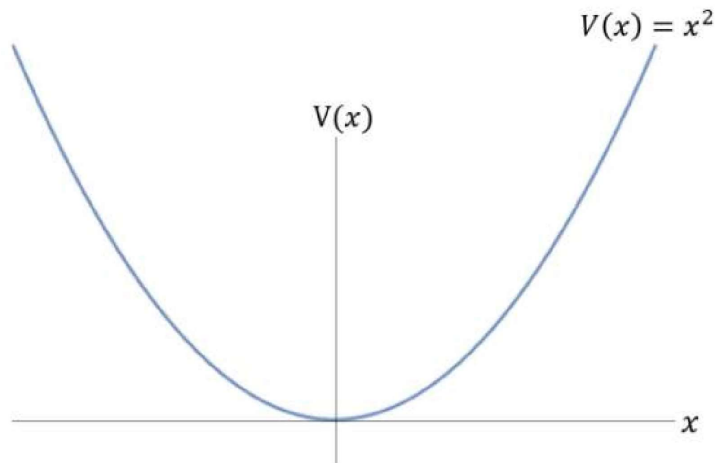


- 1) Determine the energies and plot the corresponding wavefunctions for the three lowest energy states of an electron in the potential  $V(x) = x^2$ .



- 2) Determine the energies and plot the corresponding wavefunctions for the three lowest energy states of an electron in the potential  $V(x) = x^2$  (for  $x > 0$ ) and  $V(x) = \infty$  (for  $x \leq 0$ ).

