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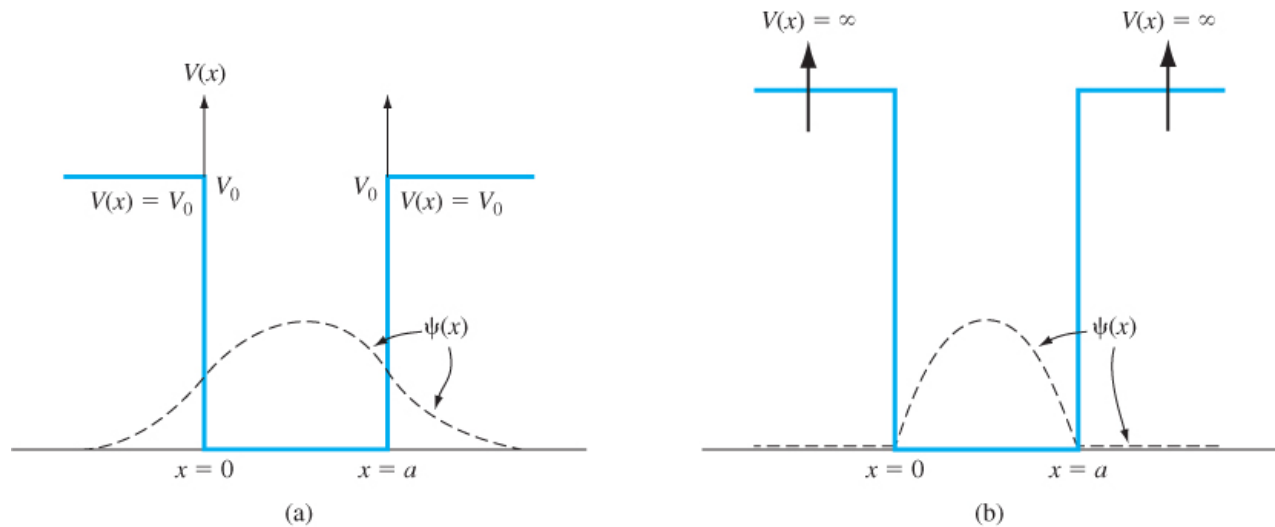


Figure 2.5 | Potential functions and corresponding wave function solutions for the case (a) when the potential function is finite everywhere and (b) when the potential function is infinite in some regions.

Handwaving arguments:

- A particle is **less likely** to be in a region of higher potential than lower potential as it takes work/energy to move from lower potential to higher potential.
- By conservation of energy, a particle can **not** be in a region of infinite potential as it would take infinite work/energy to reach such a region.