

Numerical answers.

1.(c) (ii) $r = 23.9$ pm

2.(c) 6 pm

5. (b) $E_n = 12.5n^2$ meV. $n_1 = 12.5$ meV, $n_2 = 50$ meV, $n_3 = 112.5$ meV, $n_4 = 200$ meV