

Solutions

Each answer shows the steps, then the **result**.

2.1

- $1s^2 2s^2 2p^4$

2.2

- $4s$

2.3

- 11

2.4

- Coulombic (electrostatic) attraction

3.1 B

- Coulombic attraction

3.2 A

- $1s^2 2s^2 2p^6$ ($2 + 2 + 6 = 10$)

3.3

(a)

- $1s^2 2s^2 2p^6 3s^2$

(b)

- 2

3.4

(a)

- $2 + 2 + 6 + 2 + 4 = 16$

(b)

- Inner-shell electrons