Electric Potential and Electric Field in One Dimension (1)

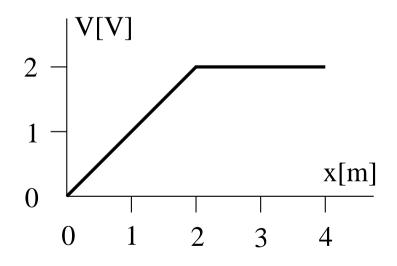


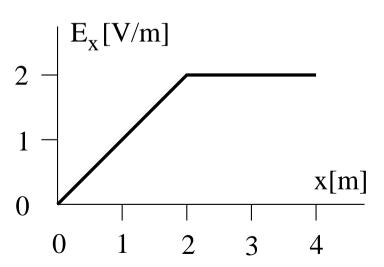
For given electric potential V(x) find the electric field

- (a) $E_x(1m)$,
- (b) $E_x(3m)$.

For given electric field $E_x(x)$ and given reference potential potential V(0)=0 find the electric potential

- (c) V(2m),
- (d) V(4m).





Electric Potential and Electric Field in One Dimension (2)



For given electric potential V(x) find the electric field

- (a) $E_x(0.5\text{m})$, (b) $E_x(1.5\text{m})$,
- (c) $E_x(2.5\text{m})$, (d) $E_x(3.5\text{m})$.

For given electric field $E_x(x)$ and given reference potential potential V(0)=0find the electric potential

- (e) V(1m), (f) V(2m), (g) V(4m).

