

# Electric Potential and Electric Field in Two Dimensions



Given is the electric potential  $V(x, y) = cxy^2$  with  $c = 1\text{V/m}^3$ .

- (a) Find the value (in SI units) of the electric potential  $V$  at point  $A$ .
- (b) Find the components  $E_x, E_y$  (in SI units) of the electric field at point  $B$ .

