

- 1. Draw arrows at points A, B, and C to indicate the direction of the electric field at those locations.
- 2. At which of the lettered points is the strength of the electric field the greatest? Give an account of your reasoning.
- 3. Calculate an approximate value for the strength of the electric field at point **D**.
- 4. Calculate the difference in potential,  $V_C V_B$  between points **B** and **C**.
- 5. Calculate the change in potential energy that would occur if a particle carrying a charge of  $-2\mu$ C is moved from point **A** to point **D**.
- 6. If the charged particle carrying a charge of  $-2\mu C$  is moved from point **A** to **C** and then to **D**, would the change in potential energy be different from the answer to the previous item, and if so, how?