

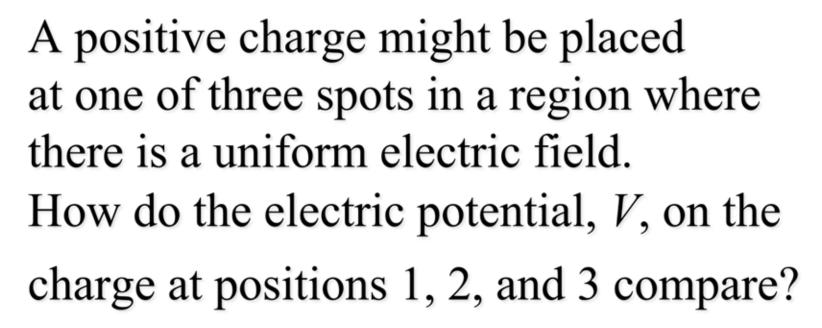
- 1. It will increase because the charge will move in the direction of the electric field.
- 2. It will decrease because the charge will move in the direction opposite to the electric field.
- 3. It will decrease because the charge will move in the direction of the electric field.
- 4. It will remain constant because the electric field is uniform.
- 5. It will remain constant because the charge remains at rest.

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When a negative test charge is released from rest near a (fixed) positive source charge, what happens to the <u>electric potential</u> of the negative test charge?

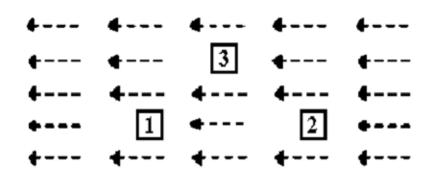
- 1. It will increase because the charge will move in the direction of the electric field.
- 2. It will decrease because the charge will move in the direction opposite to the electric field.
- 3. It will decrease because the charge will move in the direction of the electric field.
- 4. It will increase because the charge will move in the direction opposite to the electric field.
- 5. It will remain constant because the charge remains at rest.

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- 1. V is greatest at 1
- 2. V is greatest at 2
- 3. V is greatest at 3
- 4. V is 0 at all 3 spots
- 5. V is = at all 3 spots but not = 0.



Two sheets of charge are separated by a distance d, small compared to the size of the sheets. The charge per unit area on the sheets are $+\sigma$ and $-\sigma$. Select one graph below that could describe the



Select one graph below that could describe the electrostatic potential.

