

b) Find the electric potential energy when a point charge of -4.2 nC is placed at point B.

c) What is the change in electric potential energy when the -4.2 nC point charge is moved from A to B? Does it increase or decrease? Why?

d) How much work is done by the electric force in moving the charge from A toB? Is it positive or negative? Explain.



e) What is the electric potential at point A?

$$V = \frac{kQ}{r}$$

f) What is the electric potential at point B?

g) What is the change in electric potential if you were to move a test charge from A to B? Does it increase or decrease? Why?