

Answer on Question #79937, Physics / Electromagnetism

Question:

in an electric field the potential at a point is given by following relation:  $V=343/r$ .  
the electric field at  $r=3i+2j+6k$  is

Solution:

As far as  $r = |\vec{r}| = \sqrt{3^2 + 2^2 + 6^2} = \sqrt{49} = 7$ , then  $V = 343/7 = 49$ .

The answer:

$$V = 343/7 = 49.$$

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