Exercise 23.43

In a certain region of space, the electric potential is $V(x, y, z) = Axy - Bx^2 + Cy$, where A, B, and C are positive constants.

Correct

Part C

Calculate the z-component of the electric field.

Express your answer in terms of the given quantitie

E_z = 0

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Correct

Part D

At which point is the electric field equal to zero?

- $x = 0\,,\ y = 0\,,\ z = 0$
- $x = -C/A\,,\ y = 0\,,\ z = -2BC/A^2$
- $x = -C/A\,,\ y = -2BC/A^2\,,\ z = C/A$

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Correct