Problem 4.36  For each of the distributions of the electric potential $V$ shown in Fig. P4.36, sketch the corresponding distribution of $E$ (in all cases, the vertical axis is in volts and the horizontal axis is in meters).

Solution:

![Graph of V vs. x](image1.png)

![Graph of E vs. x](image2.png)
Figure P4.36: Electric potential and corresponding electric field distributions of Problem 4.36.