Chapter >4. 1 | P= (-11-2j+4K). E= TV =-(2y 2 1 + 2x 2 1 + 4xy 2 f) F = 64: +32 ] -32 = = 78.4 N/C 31. 9 = 7.5×10-15c. 1 = 1 = 1 = 1 = 1 (+ 2d). AV = 7.11x10-3 V. 37. (a) my = 5x10 kg mp= 10 kg q=5 x10 c. E= 1 9.42 = 74.9x1031. (b) = - 1 92 dr = 0.02 M. oy = Im/s = 1 m/s = az = 2.5 m/s = (c). my = my /2. I= = m, x, 2 + m, (m, v, )2 = 4.47m/5 1 Vz= 2.24 m/s. (a) d=3410 m v= 1/4 (41 + 42) Uz-630 V. (b) V = Pas ( 91 + 92 ) = 263PU (c) V = - 1 ( 91 + 92 ) = -22950

6.  $V = \int_{r_1}^{r_2} \overline{\xi} q dx$   $t = \frac{1}{2.03 \times 10^{-2}} V$ .  $V = \int_{r_1}^{r_2} \overline{\xi} q dx$   $t = \frac{1}{2.03 \times 10^{-2}} V$ .  $V = \int_{r_1}^{r_2} \overline{\xi} q dx$   $t = \frac{1}{2.03 \times 10^{-2}} V$ .  $V = \int_{r_1}^{r_2} \overline{\xi} dx = -\frac{1}{2} \frac{1}{2.03 \times 10^{-2}} V$ .  $V = \int_{r_1}^{r_2} \overline{\xi} dx = -\frac{1}{2} \frac{1}{2.03 \times 10^{-2}} V$ .  $V = \int_{r_1}^{r_2} \overline{\xi} dx = -\frac{1}{2} \frac{1}{2.03 \times 10^{-2}} V$ .  $V = \int_{r_1}^{r_2} \overline{\xi} dx = -\frac{1}{2} \frac{1}{2.03 \times 10^{-2}} V$ .  $V = \int_{r_1}^{r_2} \overline{\xi} dx = -\frac{1}{2} \frac{1}{2.03 \times 10^{-2}} V$ .  $V = \int_{r_1}^{r_2} \overline{\xi} dx = -\frac{1}{2} \frac{1}{2.03 \times 10^{-2}} V$ .  $V = \int_{r_1}^{r_2} \overline{\xi} dx = -\frac{1}{2} \frac{1}{2.03 \times 10^{-2}} V$ .