## Capítulo 1 - Campo elítrico 21=-6,0kc 20=4,0kc 23=-6,0kc Perguntas: Fe3 = Fe13 - Fe23 Fe13 = K 19111931 = 9,0×109×6,0×10°×6,0×10° = =0,02025N Fe23 = K1921193) = 9,0×10×40×10×60×106 = =0,054 Fez=0,02025-0,054=3,4x+02N woblemas: 1) $A = 0.5 \times 0.5 = 0.25 \text{ cm}^2 = 2.5 \times 10^5 \text{ m}^2 \text{ m} = 2.5 \times 10^5 \times 80 \times 10^3 = 2 \times 10^6 \text{ kg}$ Fg=mg=2x106x9,8=1,96x105N F== Kxq = 9,0x10xq = 9x1092 Fg = Fe = 1,96×10 = 9×1013 q2 = 1 q = -4,67×1010 q=4,67×1010 C Logo, a order de grandeza da corga é de 10-10 C. 2) a) 24×10<sup>-3</sup> = 9,0×10<sup>-1</sup>×1921 (=) 9,0×10<sup>-1</sup>×91×92 = 24×10<sup>-3</sup> (=) 9,192=3,4×10<sup>-1</sup> [9,192=3,4×10<sup>-11</sup> (=) 9,=4µ(1,92=6µ(1,92=6µ(1,92=4)) (-) 9,192=3,4×10<sup>-1</sup> [9,192=3,4×10<sup>-11</sup> (=) 9,=4µ(1,92=6µ(1,92=6)) (=) 9,0×10<sup>-1</sup>×91×92 = 24×10<sup>-3</sup> (=) 9,192=3,4×10<sup>-1</sup> [9,192=3,4×10<sup>-11</sup> (=) 9,2=4µ(1,92=6) (=) 9,0×10<sup>-1</sup>×91×92 = 24×10<sup>-3</sup> (=) 9,192=3,4×10<sup>-1</sup> [9,192=3,4×10<sup>-11</sup> (=) 9,2=4µ(1,92=6) (=) 9,0×10<sup>-1</sup>×91×92 = 24×10<sup>-3</sup> (=) 9,192=3,4×10<sup>-1</sup> [9,192=3,4×10<sup>-11</sup> (=) 9,2=4µ(1,92=6) (=) 9,0×10<sup>-1</sup>×91×92 = 24×10<sup>-3</sup> (=) 9,192=3,4×10<sup>-1</sup> [9,192=3,4×10<sup>-11</sup> (=) 9,2=4µ(1,92=6) (=) 9,0×10<sup>-1</sup>×91×92 = 24×10<sup>-3</sup> (=) 9,192=3,4×10<sup>-1</sup> [9,192=3,4×10<sup>-11</sup> (=) 9,2=4µ(1,92=6) (=) 9,0×10<sup>-1</sup>×91×92 = 24×10<sup>-3</sup> (=) 9,192=3,4×10<sup>-1</sup> [9,192=3,4×10<sup>-11</sup> (=) 9,2=4µ(1,92=6) (=) 9,0×10<sup>-1</sup>×91×92 = 24×10<sup>-3</sup> (=) 9,192=3,4×10<sup>-1</sup> [9,192=3,4×10<sup>-11</sup> (=) 9,2=4µ(1,92=6) (=) 9,0×10<sup>-1</sup>×91×92 = 24×10<sup>-3</sup> (=) 9,192=3,4×10<sup>-1</sup> [9,192=3,4×10<sup>-11</sup> (=) 9,2=4µ(1,92=6) (=) 9,0×10<sup>-1</sup>×91×92 = 24×10<sup>-3</sup> (=) 9,192=3,4×10<sup>-1</sup> [9,192=3,4×10<sup>-1</sup> (=) 9,192=3,4×10<sup>-</sup> b) 24×10<sup>-3</sup> = 9,0×10<sup>9</sup>×1911921 = 9,0×10<sup>2</sup>×(-91×92) = 24×10<sup>2</sup> = 9,192 = -2,4×10<sup>-11</sup> [9192 = -2,4×10<sup>-11</sup> = 12μ C λ 92 = -2μ C ου 91 = -2μ C ε 92 = 12μ C. 3) E pentual = K 19pl = 9,0×109×1,6×10<sup>19</sup> = 5,13×10<sup>11</sup> N/C 4) Fg = mg = 9,109 x 10 31 x 9,8 = 8,93 x 10 30 N E = 190 = 01F= 150 × 1,6×10 = 2,4×10 TN Fe = 2,4×10-17 Fg = 8,93×10-30 = 2,7×1010

et Borça eletrostatica e 2,7 x1012 reges maior que o peso.

