```
2. Una carga 5nC en (r, y, x) = (2, 115, 4)
a) Eon (4,-2,4) en rectorgulares
                                  r= /22-4y2
                                                     ZZZ
(r, p, 2) = (2, 115,4)
                                   tand= 9
tan(us)=y
                                  2^2 = x^2 + y^2
                                 4 = x2+ (-2,14 x)
 -214 = y -2,14 x=y
                                4 = x2+4,6x2
                                   4 = 516 x2
                -2,14-0,85 = y
                                 5,1 = X2
                    -1,8 = y
                                   \sqrt{\frac{4}{5.6}} = \times = 0.85
Carga esta (x, y, z) = (0.85, -1.8, 4)
             F = K \cdot Q \rightarrow KQ \uparrow
= - - r^3 \qquad r^2
              0,85
                               \vec{r} = (3,15, -0, 2, 0)
\vec{r} = 3,15 a_{x} - 0,2 a_{y} + 0 a_{z}
\vec{r} = \sqrt{(3,15)^{2} + (-9,2)^{2}}
                             B=
E = R. Q r
                                       = 1,43 x10 (3,15ax - 0, Zay)
\overline{E} = R \cdot \frac{s_n C}{(3,15 \text{ ax} - 0,2 \text{ ay})}
                                      E= 4,49 x10 ax - 285 x10 ay
```

