

VECTOR	Angle	x component	y component
$E_1 = 57397.95915$	03.4°	$E_1 \cos \theta = 2570.045785$	$E_1 \sin \theta = 5132.262839$
$E_2 = 5739.95915$	63.4°	2570.04578	5132.262839

$E_3 = 9 \times 10^9 q$ Angle 90°
 $E_{3x} \cos \theta = 0$ $E_{3y} = 9 \times 10^9 q$
 $E_{3z} = 0$ $E_y = 10264.52568$

Magnitude $= \sqrt{(E_x)^2 + (E_y)^2}$
 $E_{eq} = \sqrt{(0)^2 + (10264.52568)^2}$

Since $E_{eq} = 0$
 $0 = 9 \times 10^9 q + 10264.52568$

$q = \frac{10264.52568}{9 \times 10^9}$

$q = 11.416 \mu C$

