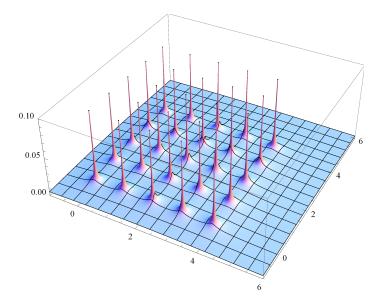
```
(*For Surface charge Distribution*)
 (*Potential Functions*)
Pot[Q_, x0_, y0_, z0_] := Q/(4 Pi epsilon Sqrt[(x-x0)^2 + (y-y0)^2 + (z-z0)^2]);
 (*Define List of Charges*)
Surfacecharges = Table[\{0.01, x, y\}, \{x, 0, 4\}, \{y, 0, 4\}];
 (*Compute Surface Potential*)
SurfacePot = 0;
Do[SurfacePot = SurfacePot + Pot[Surfacecharges[[i, j, 1]]],
                 Surfacecharges[[i, j, 2]], Surfacecharges[[i, j, 3]], 0], {i, 1, 5}, {j, 1, 5}];
 (*Plot3D in xy-plane*)
SurfacePot = SurfacePot /. \{epsilon \rightarrow 1, z \rightarrow 0\}
Plot3D[SurfacePot, {x, -1, 6}, {y, -1, 6},
   PlotRange \rightarrow \{\{-1, 6\}, \{-1, 6\}, \{0, 0.1\}\}, \text{PlotPoints} \rightarrow 200\}
Needs["VectorAnalysis`"]
 (*Electric intensity*)
SurfaceInt = -Grad[SurfacePot, Cartesian[x, y, z]];
SurfaceInt = SurfaceInt /. {epsilon \rightarrow 1, z \rightarrow 0}
Needs["VectorFieldPlots`"]
VectorFieldPlot[{SurfaceInt[[1]], SurfaceInt[[2]]},
    \{x, -1, 6, 0.11\}, \{y, -1, 6, 0.11\}]
\frac{0.000795775}{\sqrt{\left(-4+x\right)^2+\left(-4+y\right)^2}} + \frac{0.000795775}{\sqrt{\left(-3+x\right)^2+\left(-4+y\right)^2}} + \frac{0.000795775}{\sqrt{\left(-2+x\right)^2+\left(-4+y\right)^2}}
                  0.000795775
    \frac{1}{\sqrt{(-3+x)^2+(-3+y)^2}} + \frac{1}{\sqrt{(-2+x)^2+(-3+y)^2}} + \frac{1}{\sqrt{(-1+x)^2+(-3+y)^2}} + \frac{1}{\sqrt{x^2+(-3+y)^2}} + \frac{1}{\sqrt{x^2+(-3+y)^2}} + \frac{1}{\sqrt{x^2+(-3+y)^2}} + \frac{1}{\sqrt{x^2+(-3+y)^2}} + \frac{1}{\sqrt{x^2+(-3+y)^2+(-3+y)^2}} + \frac{1}{\sqrt{x^2+(-3+y)^2+(-3+y)^2}} + \frac{1}{\sqrt{x^2+(-3+y)^2+(-3+y)^2}} + \frac{1}{\sqrt{x^2+(-3+y)^2+(-3+y)^2}} + \frac{1}{\sqrt{x^2+(-3+y)^2+(-3+y)^2+(-3+y)^2}} + \frac{1}{\sqrt{x^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-3+y)^2+(-
                  0.000795775
                                                                        0.000795775
    \sqrt{(-4+x)^2+(-2+y)^2} \sqrt{(-3+x)^2+(-2+y)^2} \sqrt{(-2+x)^2+(-2+y)^2}
    \sqrt{\left(-1+x\right)^{2}+\left(-2+y\right)^{2}} \qquad \sqrt{x^{2}+\left(-2+y\right)^{2}} \qquad \sqrt{\left(-4+x\right)^{2}+\left(-1+y\right)^{2}} \qquad \sqrt{\left(-3+x\right)^{2}+\left(-1+y\right)^{2}}
    \frac{0.000795775}{\sqrt{\left(-2+x\right)^2+\left(-1+y\right)^2}}+\frac{0.000795775}{\sqrt{\left(-1+x\right)^2+\left(-1+y\right)^2}}+\frac{0.000795775}{\sqrt{x^2+\left(-1+y\right)^2}}+\frac{0.000795775}{\sqrt{\left(-4+x\right)^2+y^2}}
    \frac{1}{\sqrt{(-3+x)^2+y^2}} + \frac{1}{\sqrt{(-2+x)^2+y^2}} + \frac{1}{\sqrt{(-1+x)^2+y^2}} + \frac{1}{\sqrt{x^2+y^2}}
```



$$\begin{cases} \frac{0.000795775 \left(-4+x\right)}{\left((-4+x)^2+(-4+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-3+x\right)}{\left((-3+x)^2+(-4+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-2+x\right)}{\left((-4+x)^2+(-4+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-4+x\right)}{\left((-4+x)^2+(-4+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-4+x\right)}{\left((-4+x)^2+(-3+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-4+x\right)}{\left((-4+x)^2+(-2+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-3+x\right)}{\left((-2+x)^2+(-2+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-3+x\right)}{\left((-2+x)^2+(-2+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-3+x\right)}{\left((-2+x)^2+(-2+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-3+x\right)}{\left((-2+x)^2+(-2+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-3+x\right)}{\left((-4+x)^2+(-1+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-3+x\right)}{\left((-4+x)^2+(-1+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-3+x\right)}{\left((-3+x)^2+(-1+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-3+x\right)}{\left((-3+x)^2+y^2\right)^{3/2}} + \frac{0.000795775 \left(-3+x\right)}{\left((-2+x)^2+(-1+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-4+x\right)}{\left((-4+x)^2+(-1+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-4+x\right)}{\left((-4+x)^2+(-1+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-4+x\right)}{\left((-2+x)^2+y^2\right)^{3/2}} + \frac{0.000795775 \left(-4+x\right)}{\left((-2+x)^2+y^2\right)^{3/2}} + \frac{0.000795775 \left(-4+x\right)}{\left((-2+x)^2+y^2\right)^{3/2}} + \frac{0.000795775 \left(-4+y\right)}{\left((-2+x)^2+y^2\right)^{3/2}} + \frac{0.000795775 \left(-4+y\right)}{\left((-2+x)^2+(-2+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-4+y\right)}{\left((-2+x)^2+(-2+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-4+y\right)}{\left((-2+x)^2+(-2+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-4+y\right)}{\left((-2+x)^2+(-2+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-3+y\right)}{\left((-2+x)^2+(-2+y)^2\right)^{3/2}} + \frac{0.000795775 \left(-3+y\right)}{\left((-2+x$$

