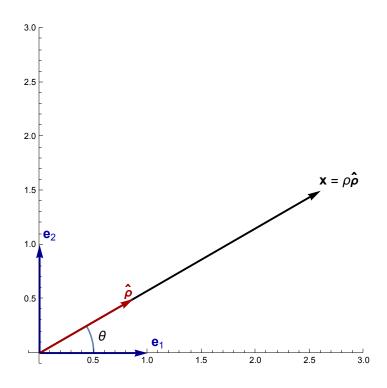
Plot (curvilinearPolarFig1.eps) that shows a 2d vector in polar coordinates, the radial vector, and the angle relative to the horizon.

```
<< peeters`;
peeters`setGitDir["../project/figures/GAelectrodynamics"]
/Users/pjoot/project/figures/GAelectrodynamics
ClearAll[o, e1, e2, rcap, fs, bold, esub, tcap]
0 = \{0, 0\};
{e1, e2} = IdentityMatrix[2];
rcap[t_] := e1 Cos[t] + e2 Sin[t];
bold := Style[#, Bold] &;
fs := Style[#, FontSize → 14] &;
esub := fs[Subscript["e" // bold, #]] &;
tcap := fs[bold[OverHat[#]]] &;
p = Module[{rho, theta, x, tr},
  rho = 3;
  tr = 0.5;
  theta = Pi/6;
  x = rhorcap[theta];
  Show[{
    ParametricPlot[trrcap[t], {t, 0, theta},
     PlotRange → {{-0.1, rho}, {-0.1, rho}}, PlotStyle → "ThickLines"],
    Graphics[{
       Thick,
       Text["\theta" // fs, 1.2 tr rcap[theta / 2]],
       Arrow[{o, x}],
       Text[
        Row[{"x" // bold // fs, " = \rho" // fs, tcap["\rho"]}],
        0.2 \operatorname{rcap}[\operatorname{theta}] + x],
       Blue // Darker,
       Arrow[{o, e1}],
       Arrow[{o, e2}],
       Text[esub[1], 1.1 e1 + 0.1 e2],
       Text[esub[2], 1.1e2 + 0.1e1],
       Red // Darker,
       Arrow[{o, rcap[theta]}],
       Text[tcap["\rho"], rcap[1.15 theta]]
     }]
   }]
 1
```



peeters`exportForLatex["curvilinearPolarFig1", p]
{curvilinearPolarFig1.eps, curvilinearPolarFig1pn.png}