

```

[> with(VectorCalculus) : SetCoordinates(cartesian[x, y, z]) :
[> f := VectorField([x*(x^2 - y^2), -y*(x^2 - y^2), 0])
      f := (x (x^2 - y^2)) e_x + (-y (x^2 - y^2)) e_y + (0) e_z (1)
[=
[> Curl(f)
      (0) e_x + (0) e_y + (0) e_z (2)
[=
[> ScalarPotential(f)
      (x^2 - y^2)^2 (3)
      4
[>

```