

Vector Analysis

Mathematica 8.0
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パッケージをロード

```
In[1]:= << VectorAnalysis`
```

座標系の指定

Cylindrical, Spherical もある

```
In[2]:= SetCoordinates[Cartesian[x, y, z]]
```

```
Out[2]= Cartesian[x, y, z]
```

```
In[3]:= Grad[x * y * z]
```

```
Out[3]= {y z, x z, x y}
```

```
In[4]:= Div[{x, y, z}]
```

```
Out[4]= 3
```

```
In[5]:= Curl[{-y, x, 0}]
```

```
Out[5]= {0, 0, 2}
```