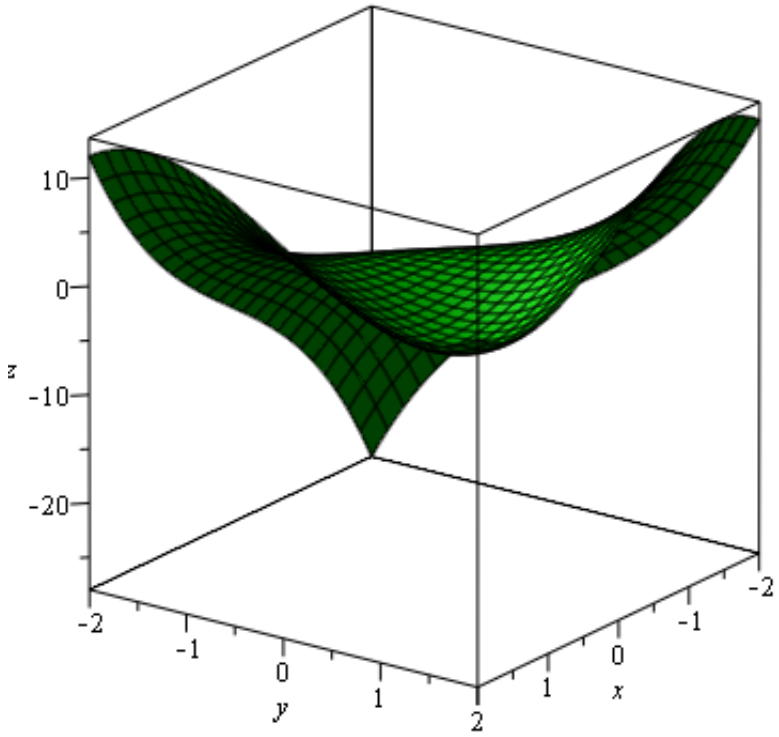
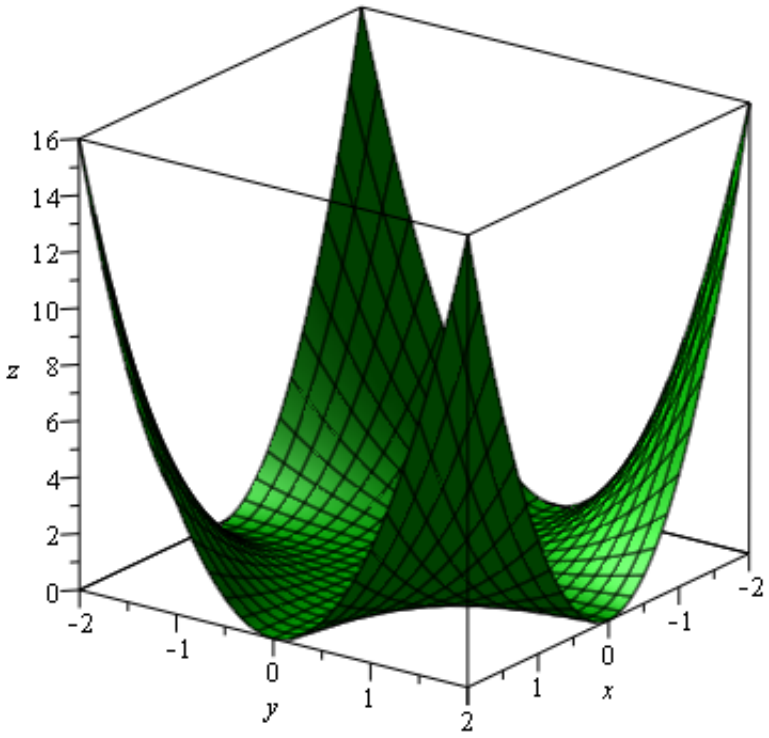
```
> with(plots):
> with(Student[MultivariateCalculus]):
> f := (x, y) → x^3 + y^3 − 3·x·y:
> plot3d(f(x, y), x = −2..2, y = −2..2, orientation = [36, 70], color = "Green", labels = ['x','y','z'],
      color = "Green", axes = boxed)
```




```
> SecondDerivativeTest(f(x, y), [x, y] = [[0, 0], [1, 1]])
```

LocalMin = [[1, 1]], *LocalMax* = [ ], *Saddle* = [[0, 0]] **(1)**

```
> g := (x, y) → x^2·y^2:
> plot3d(g(x, y), x = −2..2, y = −2..2, orientation = [36, 70], color = "Green", labels = ['x','y','z'],
      axes = boxed)
```




```
> SecondDerivativeTest(g(x, y), [x, y] = [1, 0])
```

$$LocalMin = [\ ],\ LocalMax = [\ ],\ Saddle = [\ ] \qquad \textbf{(2)}$$

```
>
```