

Pensieve header: Integration by Riemann sums.

$$f = 2 - x^2 - y^2; \Delta = 0.2;$$

```
GraphicsRow[{  
  Plot3D[f, {x, -1, 1}, {y, -1, 1}, Mesh -> False,  
    ViewPoint -> {2.90291, -1.43548, 0.981093}, ViewVertical -> {0., 0., 1.}],  
  DiscretePlot3D[f, {x, -1, 1, Δ}, {y, -1, 1, Δ}, ExtentSize -> Full, PlotStyle -> Yellow,  
    ViewPoint -> {2.90291, -1.43548, 0.981093}, ViewVertical -> {0., 0., 1.}]  
}]
```

