```
\cite{This properties of the proof of the 
                SetCoordinates(cartesian[x, y, z]):
= # First define n_k = normaa

= v_1 := VectorField([-u \cdot sin(u)])

= v_2 := VectorField([0, 0, 1]):
              # First define n_k = normaal\ vector\ met\ rechterhand
v_1 := VectorField([-u \cdot \sin(u) + \cos(u), \sin(u) + u \cdot \cos(u), 0]):
     n := CrossProduct(v_1, v_2)
                                                                        n := (\sin(u) + u\cos(u))\bar{\mathbf{e}}_{x} + (u\sin(u) - \cos(u))\bar{\mathbf{e}}_{y} + (0)\bar{\mathbf{e}}_{z}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (1)
> # Nu grad x F
 F := VectorField([0, -z, y]):
   \gt{curl} := Curl(F)
                                                                                                                                                         curl := (2)\bar{\mathbf{e}}_{x} + (0)\bar{\mathbf{e}}_{y} + (0)\bar{\mathbf{e}}_{z}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (2)
                # Dus
  int \left( int(DotProduct(curl, n), v = 0..u), u = 0..\frac{Pi}{2} \right)
                                                                                                                                                                                                                    -2+\frac{\pi^2}{2}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (3)
                     # et voila
```