## Mathe1\_Übung10.4

```
def GramSchmidt(veclist):
 output list = []
for vector in range(len(veclist)):
     if output_list == []:
         if not veclist[vector].is_zero():
             temporary = veclist[vector].normalized()
             output list.append(temporary)
     else:
         new vector = veclist[vector]
         for vector2 in range(len(output list)):
             new vector = new vector - \
                          (output list[vector2].dot product(new vector) *
                          output list[vector2]
         if not new_vector.is_zero():
             new vector = new vector.normalized()
             output list.append(new vector)
 return(output list)
```