

Mathe1_Übung6.4

```
V = QQ^5
vector_list = [vector([2, 2, 2, -3, -3]), vector([2, 2, -3, 2, -3]),
vector([2, 2, -3, -3, 2]), vector([2, -3, 2, 2, -3]), vector([2, -3, 2, -3,
2]), vector([2, -3, -3, 2, 2]), vector([-3, 2, 2, 2, -3]), vector([-3, 2, 2,
-3, 2]), vector([-3, 2, -3, 2, 2]), vector([-3, -3, 2, 2, 2])]
```

```
counter = 0
counter_total = 0
for each in Combinations(vector_list, 4):
    counter_total += 1
    if V.linear_dependence(each) == []:
        counter += 1

print(counter)
print(counter_total)
```

185

210