#1: zu BA6 d)

#2: ----------

```
f(n) :=
  If n = 1
#3:    1
       f(n - 1) + n
```

#4: VECTOR([n, f(n)], n, 1, 10, 1)

#5:

1	1
2	3
3	6
4	10
5	15
6	21
7	28
8	36
9	45
10	55

#6: 1+2+3+4+5+6+7+8...

#7: $ftest(n) := \sum_{k=1}^{n} k$

#8: ----------

#9: Probe:

#10: VECTOR([n, ftest(n)], n, 1, 10, 1)

#11:

1	1
2	3
3	6
4	10
5	15
6	21
7	28
8	36

$$\begin{bmatrix} 9 & 45 \\ 10 & 55 \end{bmatrix}$$

#12: Vereinfachen:

#13: $$ftest(n) := \frac{n \cdot (n + 1)}{2}$$

#14: $$fLsg(n) := \frac{n \cdot (n + 1)}{2}$$

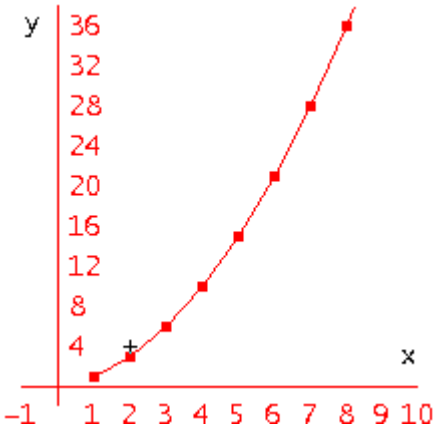
#15: $$fLsg(n) := \frac{n^2}{2} + \frac{n}{2}$$

#16: ----------

#17: Probe:

#18: VECTOR([n, fLsg(n)], n, 1, 10, 1)

#19:
$$\begin{bmatrix} 1 & 1 \\ 2 & 3 \\ 3 & 6 \\ 4 & 10 \\ 5 & 15 \\ 6 & 21 \\ 7 & 28 \\ 8 & 36 \\ 9 & 45 \\ 10 & 55 \end{bmatrix}$$



#20: _____