

Serie 3
Anfragen an XML und Suchmaschinen 2008
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1. Compute the terms $3*6*9$, $2*8+9*7$, $(3+4)*(8+9)$ und $3*6+3*7$ in the "bar-list model" (Strichlistenmodell).

Hint: $3*4$:

```
<<L(A):: ||| >>
```

```
ext <<L(B):: ||| >> at A
```

```
gib L(B)
```

```
count
```

2. Find an approximate for the first derivation of the sine function in the interval $[1;10]$. Represent the results graphically.
3. Find an approximate for the integral of the sine function in the interval $[1;10]$. Use the extension `rext`. Represent the results graphically.
4. Find a query with an `at`-clause with more than one column name ("at A,B")
5. Given:
STUDENT: M(NAME, FIRSTNAME, FACULTY, LOCATION)
Write 2 `otto`-programs which distribute the students of faculty maths in three columns and the students from faculty informatics in 3 further columns.