What is the type of the function `foo`? What does the function do?

```
foo y zs = map (\x -> x^y) zs
```

Write a function `sumList` that returns the sum of a list of numbers. Write a function `prodList` that returns the product of a list of numbers.
What do the following evaluate to? Why?

\[ \text{foldr} \ (^) \ 1 \ [2,3] \]

\[ \text{foldl} \ (^) \ 1 \ [2,3] \]

What does the following evaluate to?

\[ \text{foldr} \ (\_ \ s \rightarrow 1 + s) \ 0 \ "abcde" \]