Introduction to Programming: Quiz 1

Date: September 17, 2026 **Time:** 1700 – 1745 hrs **Marks:** 10 **Weightage:** 10%

[2] 1. Write a recursive function `dropOdds :: [a] → [a]` that drops the elements at odd indices of a list (indexing from 0). For example:

```
dropOdds [1,2,3,4,5] = [1,3,5]
```

[2] 2. Write a function `sums` that takes a list of lists of numbers `xs` and returns the list of sums of the non-empty lists in `xs`. For example:

```
sums [[1..5], [], [2,6]] = [15,8]
```

[2] 3. Consider the function

```
f xs = foldr (/=) False xs
```

Find the type of `f`, and compute `f` on two example inputs.

[4] 4. Given the decimal expansions of two numbers (as lists of digits of equal length, most significant digit first), compute the decimal expansion of their sum. For example:

```
add [0,8,5,3,3] [0,2,8,6,8] = [1,1,4,0,1]
```