

36-402 Homework 10

Eu Jing Chua

eujingc

April 14, 2019

```
## Nonparametric Kernel Methods for Mixed Datatypes (version 0.60-9)
## [vignette("np_faq",package="np") provides answers to frequently asked questions]
## [vignette("np",package="np") an overview]
## [vignette("entropy_np",package="np") an overview of entropy-based methods]
```

Question 1

We can check if the deltas are correct by adding them back to the pre-test values and seeing if they match the post-test values.

Table 1: Check for Pre-test + Delta = Post-test

	x
let	TRUE
body	TRUE
form	TRUE
numb	TRUE
relat	TRUE
clasf	TRUE

Question 2

Q2 a)

Table 2: Estimates for deltalet

	Estimate	SE
Regular watchers mean	13.220	0.810
Irregular watchers mean	2.481	0.918
Difference in means	10.739	1.224

Q2 b)

In order for this difference in means to be a sound estimate of the causal effect of switching from, there must be no other confounding sources that affect the subjects' knowledge of letters and whether they are regular watchers or not.