

## Brief answer to selected problems in HW14

1. Chap 6, Additional and Advanced Exercises: problems 4

Left hand side = arclength of the curve  $y = \sin x$  from  $(0, 0)$  to  $(\alpha, \sin \alpha)$ . Right hand side is the distance between  $(0, 0)$  to  $(\alpha, \sin \alpha)$ .