MAT136 Test 1 Version A – Sample Solutions

Last modified: Wednesday Feb 12, 2025

A1. **[2 marks]** A cyclist travels along a street. Their velocity $v(t)$ measured in km per hour is given in the table below, where t is measured in hours. Use the information in the table to write a Riemann sum that approximates the **total distance** travelled by the cyclist in the first 6 hours. Your Riemann sum should use 3 rectangles and **left endpoints**. You are **NOT** expected to use "summation notation". Your answer can contain "+" and other arithmetic symbols.

t	0	1	2	3	4	5	6