

AP Calculus
5.1 Worksheet

All work must be shown in this course for full credit. Unsupported answers may receive NO credit.

1. The function f is continuous on the closed interval $[2, 8]$ and has values that are given in the table below.

x	2	5	7	8
$f(x)$	10	30	40	20

Using the subintervals $[2, 5]$, $[5, 7]$, and $[7, 8]$, what are the following approximations of the area under the curve?

A) LRAM

B) RRAM

C) MRAM

D) Trapezoid Rule

2. Complete the following problems from the textbook:

pages 270 – 273: #2, 4, 11 (use 4 rectangles and any RAM), 17, 23, 30, 34, 35, 36