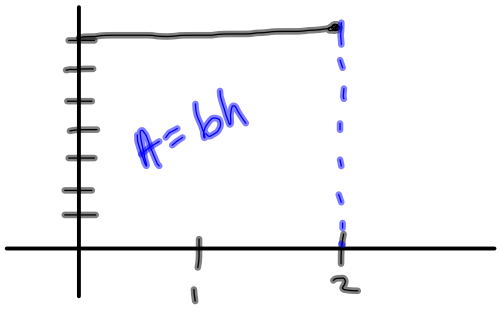
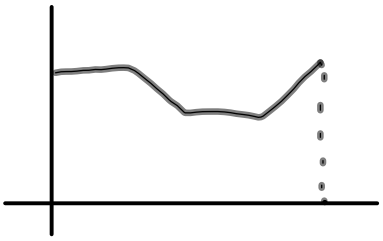
5.1




Total distance: $70 \cdot 2 = 140$ mi

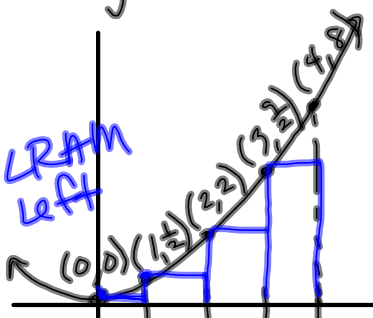
area under curve



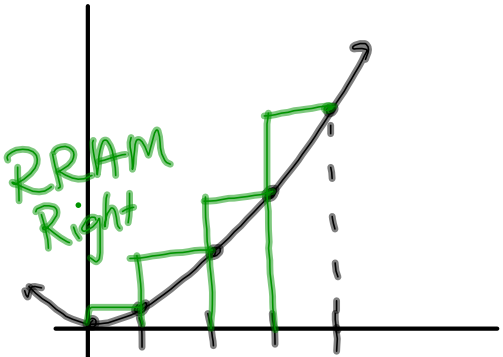
Yes!

Jan 9-11:05 AM

$y = \frac{1}{2}x^2$ $[0,4]$




* points on curve are left top corner of rectangle.




* right top corner

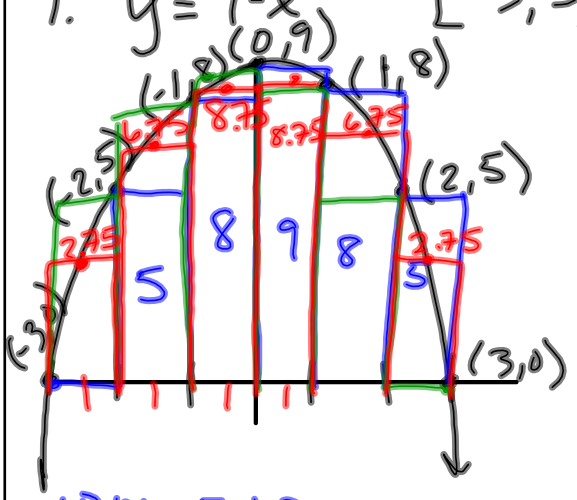
LRAM: Left Rectangle Approximation Method

RRAM: Right " " "

MRAM: Midpoint " " "

Jan 9-11:09 AM

1. $y = 9 - x^2$ $[-3, 3]$




LRAM: $5+8+9+8+5 = 35$

RRAM: 35

MRAM: 36.5

Jan 9-11:17 AM

2. $y = 9 - x^2$ $[-3, 3]$

Hit y = $9-x^2$ fnc

PRGM → RAM → enter

prgm RAM enter

A = -3 (lower bound)

B = 3 (upper bound)

N = 20 (# of subintervals)

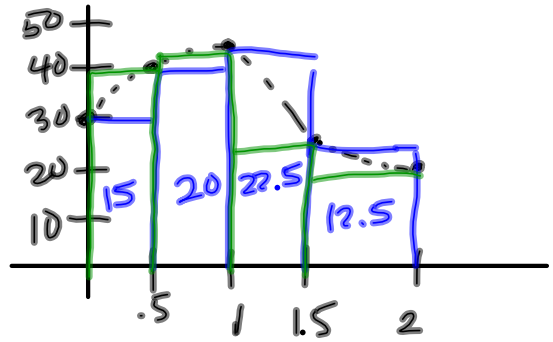
LRAM: 35.91

MRAM: 36.045

RRAM: 35.91

Jan 9-11:32 AM

3.

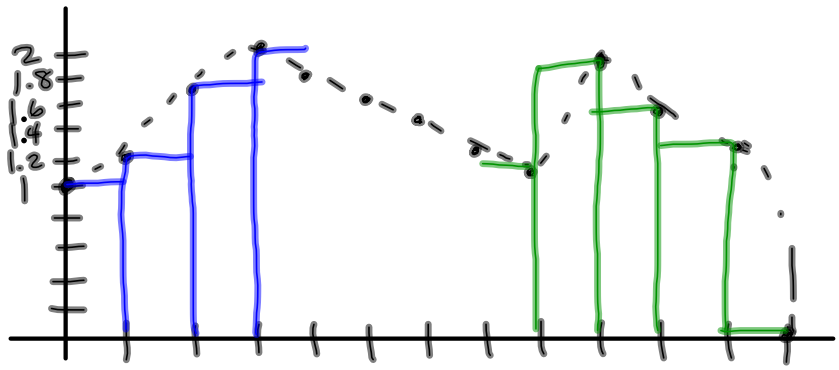



LRAM : 15+20+22.5+12.5 = 70

RRAM: 65

Jan 9-11:37 AM

17.

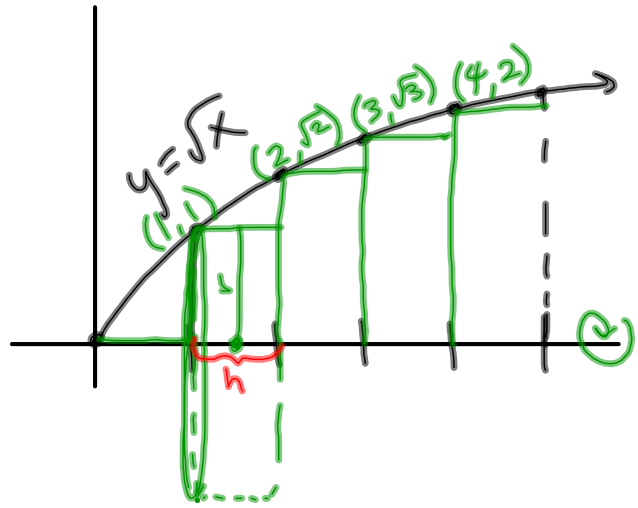



LRAM: 5+6+8.5+10+9+8+7+16+5+9+7.5+6 =87

RRAM: 82

Jan 9-11:51 AM

24.




$V = \pi r^2 h$

$V = \pi(1)^2 \cdot 1 + \pi(\sqrt{2})^2 \cdot 1 + \pi(\sqrt{3})^2 \cdot 1 + \pi(2)^2 \cdot 1$

$\approx 31.416$

Jan 9-12:02 PM