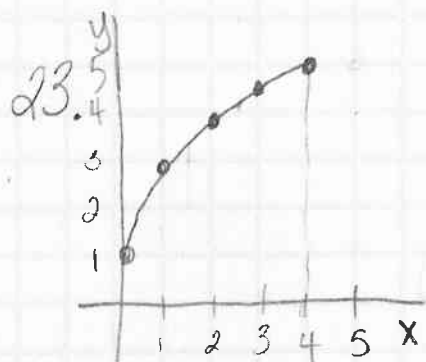


4.2 & 4.6 A p. 268, # 23-25



$\Delta x =$

LRAM:  $A = 1(f(0) + f(1) + f(2) + f(3))$

$A = 1 + 3 + 4 + 4.5 = 12.5$

RRAM:  $A = 1(f(1) + f(2) + f(3) + f(4))$

$= 3 + 4 + 4.5 + 5 = 16.5$

MRAM:  $A = 1(f(\frac{1}{2}) + f(\frac{3}{2}) + f(\frac{5}{2}) + f(\frac{7}{2}))$

$= 2 + \frac{7}{2} + \frac{11}{4} + \frac{14}{4} = 14.5$

trap:  $A = \frac{1}{2} \cdot 1 \cdot (f(0) + 2f(1) + 2f(2) + 2f(3) + f(4))$

$A = \frac{1}{2} (1 + 2(3) + 2(4) + 2(4.5) + 5)$

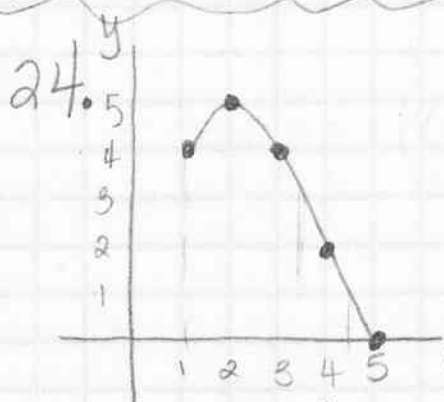
$A = 14.5$

Inscr:  $A = 1(f(0) + f(1) + f(2) + f(3))$

$= 1 + 3 + 4 + 4.5 = 12.5$

Circum:  $A = 1(f(1) + f(2) + f(3) + f(4))$

$A = 3 + 4 + 4.5 + 5 = 16.5$



LRAM:  $A = 1(f(1) + f(2) + f(3) + f(4))$

$A = 4 + 5 + 4 + 2 = 15$

RRAM:  $A = 1(f(2) + f(3) + f(4) + f(5))$

$= 5 + 4 + 2 + 0 = 11$

MRAM:  $A = 1(f(\frac{3}{2}) + f(\frac{5}{2}) + f(\frac{7}{2}) + f(\frac{9}{2}))$

$= 4.75 + 4.75 + 3 + 1 = 13$

trap:  $A = \frac{1}{2} \cdot 1 (f(1) + 2f(2) + 2f(3) + 2f(4) + f(5))$

$A = \frac{1}{2} (4 + 2(5) + 2(4) + 2(2) + 0)$

$A = 13$

Inscr:  $A = 1(f(1) + f(3) + f(4) + f(5))$

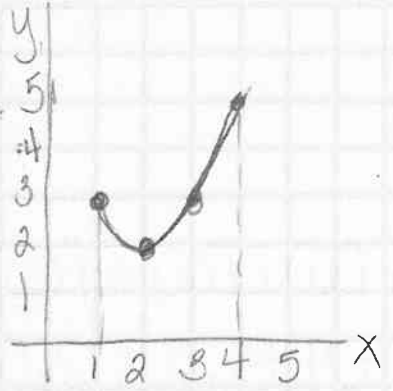
$= 4 + 4 + 2 + 0 = 10$

Circum:  $A = 1(f(2) + f(2) + f(3) + f(4))$

$= 5 + 5 + 4 + 2$

$= 16$

25.



LRAM:  $A = 1(f(1) + f(2) + f(3))$   
 $= 3 + 2 + 3 = 8$

RHAM:  $A = 1(f(2) + f(3) + f(4))$   
 $= 2 + 3 + 5 = 10$

MHAM:  $A = 1(f(\frac{3}{2}) + f(\frac{5}{2}) + f(\frac{7}{2}))$   
 $= 2\frac{1}{3} + 2\frac{1}{3} + 4 = 8\frac{2}{3}$

trap:  $A = \frac{1}{2} \cdot 1(f(1) + 2f(2) + 2f(3) + f(4))$   
 $= \frac{1}{2}(3 + 2(2) + 2(3) + 5) = 9$

Insc:  $A = 1(f(2) + f(2) + f(3))$   
 $= 2 + 2 + 3 = 7$

Circum:  $A = 1(f(1) + f(3) + f(4))$   
 $= 3 + 3 + 5 = 11$