$1[a+1dx] \neq f(1)$

$P_{\square} = \frac{a+b}{2} \cdot h$

for i in range(n):
$(a+i\,dx)$ $(a+dx+i\,dx)$ $\frac{(i+1)\cdot dx}{2}$

$P_I = \frac{(f(a)+f(a+dx))}{2} \cdot dx$

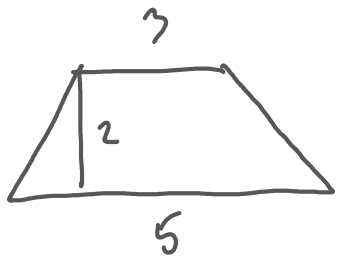
$P_{II} = \frac{(f(a+dx)+f(a+2dx))}{2} \cdot dx$

$P_{III} = \frac{f(a+2dx)+f(a+3dx)}{2} \cdot dx$

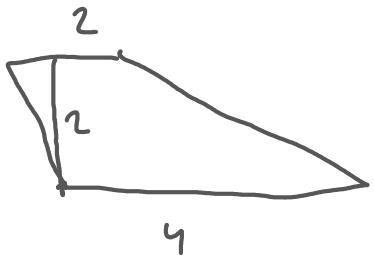
$P_I + P_{II} + P_{III} = \frac{dx}{2}($

```
s += f(a) + f(b)
for i in range(1, n-1)
    s += 2 * f(a + i*dx)
return (s) * dx / 2
```

1)

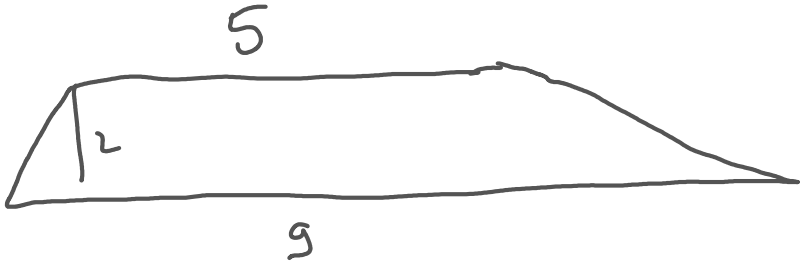


$P_1 = \frac{5+3}{2} \cdot 2 = 8$



$P_2 = \frac{4+2}{2} \cdot 2 = 6$

2)



$P_3 = \frac{5+9}{2} \cdot 2 = 14$