

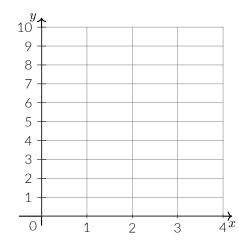
## Atividade: As imagens

Nas tabelas abaixo encontram-se as taxas de variação médias de funções e os intervalos correspondentes. Complete-as com os valores da função e em seguida represente os pontos no sistema de coordenadas

$$\frac{\Delta y}{\Delta x} = \frac{f(b) - f(a)}{b - a}$$

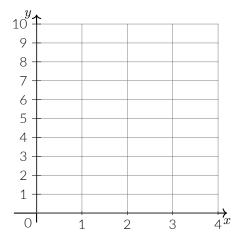
a)

| [a,b]  | f(0) = 1 | $\Delta y/\Delta x$ |
|--------|----------|---------------------|
| [0, 1] | f(1) =   | 2                   |
| [1,2]  | f(2) =   | 2                   |
| [2, 3] | f(3) =   | 2                   |
| [3, 4] | f(4) =   | 2                   |



b)

| [a,b]              | f(0) = 10 | $\Delta y/\Delta x$ |
|--------------------|-----------|---------------------|
| $[0, \frac{1}{2}]$ | f(1/2) =  | -2                  |
| $[\frac{1}{2}, 1]$ | f(1) =    | -2                  |
| $[1, \frac{3}{2}]$ | f(3/2) =  | -2                  |
| $[\frac{3}{2}, 2]$ | f(2) =    | -2                  |
| $[2, \frac{5}{2}]$ | f(5/2) =  | -2                  |
| $[\frac{5}{2}, 3]$ | f(3) =    | -2                  |
| $[3, \frac{7}{2}]$ | f(7/2) =  | -2                  |
| $[\frac{7}{2}, 4]$ | f(4) =    | -2                  |



c)

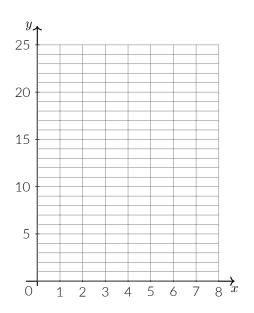
| [a,b]  | f(0) = 0 | $\Delta y/\Delta x$ |
|--------|----------|---------------------|
| [0, 2] | f(2) =   | 1                   |
| [2, 4] | f(4) =   | 2                   |
| [4, 6] | f(6) =   | 3                   |
| [6, 8] | f(8) =   | 4                   |

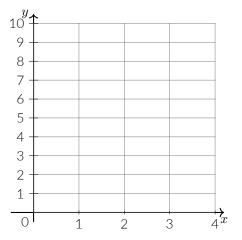
d)

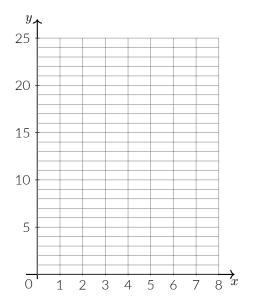
| [a,b]  | f(0) = 0 | $\Delta y/\Delta x$ |
|--------|----------|---------------------|
| [0, 1] | f(1) =   | 10                  |
| [1,2]  | f(2) =   | -8                  |
| [2, 3] | f(3) =   | 6                   |
| [3, 4] | f(4) =   | 0                   |

e)

| [a,b]  | f(0) = 0 | $\Delta y/\Delta x$ |
|--------|----------|---------------------|
| [0, 1] | f(1) =   | 1                   |
| [1,2]  | f(2) =   | 3                   |
| [2, 3] | f(3) =   | 5                   |
| [3, 4] | f(4) =   | 7                   |
| [4, 5] | f(5) =   | 5                   |
| [5, 6] | f(6) =   | 3                   |
| [6, 7] | f(7) =   | 1                   |
| [7, 8] | f(8) =   | 0                   |







Realização:

OLITZ
OLIMPÍADA BRASILEIRA
DE MATEMÁTICA
DAS ESCOLAS PÚBLICAS

Patrocínio: