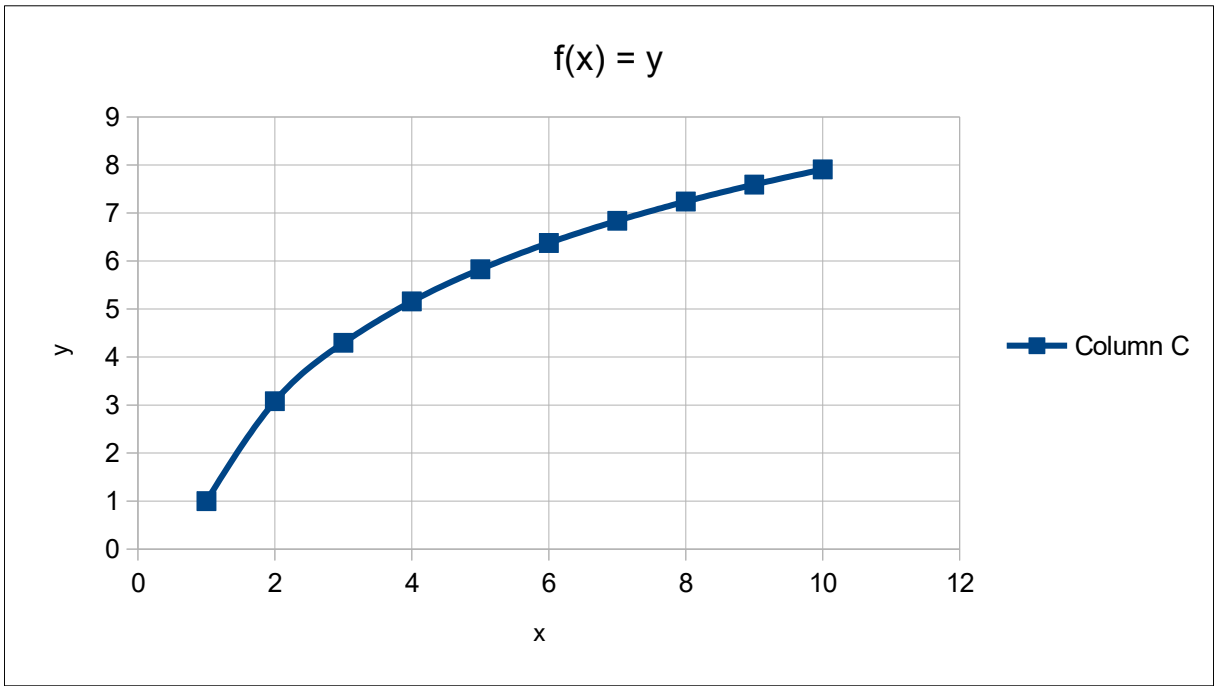

Варіант №11.

№	X	Y
1	1	1.00000
2	2	3.07944
3	3	4.29584
4	4	5.15888
5	5	5.82831
6	6	6.37528
7	7	6.83773
8	8	7.23832
9	9	7.59167
10	10	7.90776

1)

$$x_{arif} = \frac{(x_1 + x_{10})}{2} = 5.5$$
$$x_{geom} = \sqrt{x_1 x_{10}} = \sqrt{10} \approx 3.16$$
$$x_{garm} = \frac{2 x_1 x_{10}}{x_1 + x_{10}} \approx 1.82$$

2)

$$y_1^* = f(x_{arif}) \approx 6.1$$
$$y_2^* = f(x_{geom}) \approx 4.5$$
$$y_3^* = f(x_{garm}) \approx 2.5$$

3)

$$y_{arif} = \frac{y_1 + y_{10}}{2} \approx 4.05$$
$$y_{geom} = \sqrt{y_1 y_{10}} \approx 2.4$$
$$y_{garm} = \frac{2 y_1 y_{10}}{y_1 + y_{10}} \approx 1.78$$

4)

$$\epsilon_1 = |y_1^* - y_{arif}| \approx 0.6$$
$$\epsilon_2 = |y_1^* - y_{geom}| \approx 2.94$$
$$\epsilon_3 = |y_1^* - y_{garm}| \approx 4.28$$
$$\epsilon_4 = |y_2^* - y_{arif}| \approx 1$$
$$\epsilon_5 = |y_2^* - y_{geom}| \approx 1.34$$
$$\epsilon_6 = |y_3^* - y_{arif}| \approx 3$$
$$\epsilon_7 = |y_3^* - y_{garm}| \approx 0.68$$

$$\epsilon_{min} = \epsilon_1$$
$$y = a + bx$$