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Student Velpam Q. Effid used Euler's method with step size 0.5 to compute the following table of values for the initial value problem y' = f(x, y), y(0) = 1.

n	x_n	y_n
0	0	1
1	0.5	1
2	1	1.5
3	1.5	3
4	2	7.5

A. Find a formula for f(x,y) that is compatible with this data.

B. For the f(x,y) you determined, how good an approximation is Euler's method with step size 0.5?