1 $\frac{dy}{dx} = y(x) = \frac{1}{2}\operatorname{sen}(2x) - \frac{1}{3}\cos(3x) + \frac{4}{3}$; $0 \le x \le 1$; $y(0) = 1$ con $h = .25$

$\frac{dy}{dx} = \frac{1}{2}\operatorname{sen}(2x) - \frac{1}{3}\cos(3x) + \frac{4}{3} \Rightarrow y = -\frac{1}{4}\cos(2x) - \frac{1}{9}\operatorname{sen}(3x) + \frac{4}{3}x + C$

$1 = -\frac{1}{4}\cos(0) - \frac{1}{9}\operatorname{sen}(0) + \frac{4}{3}(0) + C \Rightarrow 1 = -\frac{1}{4} + C \Rightarrow C = \frac{5}{4}$

$y = -\frac{1}{4}\cos(2x) - \frac{1}{9}(3x) + \frac{4}{3}x + \frac{5}{4}$

	y Euler	y Ver. de dos
0	1	1
	$Y_0 = 1$	$(-\frac{1}{4}\cos(2\cdot0) + (-\frac{1}{9}\operatorname{sen}(3\cdot0) + (\frac{4}{3}\cdot0) + \frac{5}{4}$
.25	1.25	$1.28\overline{8}^2$
	$1 + .25((\frac{1}{2}\operatorname{sen}(2\cdot0) + \frac{4}{3}\cos(3\cdot0) + \frac{4}{3})$	$(-\frac{1}{4}\cos(.5)) + (-\frac{1}{9}\operatorname{sen}(.75)) + \frac{4}{3}\cdot\frac{1}{4} + \frac{5}{4})$
.5	1.5823	1.4708
	$1.25 + .25((\frac{1}{2}\operatorname{sen}(2\cdot.25)) + (\frac{1}{3}\cos(3\cdot.25)) + \frac{4}{3})$	$(-\frac{1}{4}\cos(1)) + (-\frac{1}{9}\operatorname{sen}(1.5)) + .66 + \frac{3}{4}$
.75	2.0149	2.1454
	$1.5823 + .25((\frac{1}{2}\operatorname{sen}(1)) + (\frac{1}{3}\cos(1.5)) + \frac{4}{3})$	$(-\frac{1}{4}\cos(1.5) + (-\frac{1}{9}\operatorname{sen}(\frac{1}{5})) + 1 + \frac{5}{4}$
1	2.5253	2.6717
	$2.0149 + .25((\frac{1}{2}\operatorname{sen}(1.5)) + (-\frac{1}{3}\cos(2.25)) + \frac{4}{3})$	$(-\frac{1}{4}\cos(2)) + (-\frac{1}{9}\operatorname{sen}(3)) + \frac{4}{3} + \frac{5}{4}$