x_n	coefficient of x_2 in Eq 2		Absolute change in soln for x_n
	1	1.001	
x_1	-1.81478	-1.81445	3.3×10^{-4}
x_2	-0.0161541	-0.0162088	5.47×10^{-5}
x_3	1.65059	1.65025	3.4×10^{-4}
x_4	0.40739	0.407388	2×10^{-6}
x_5	1.02213	1.02215	2×10^{-5}

The absolute changes in each value obtained for x_n are all much smaller than the change in coefficient of x_2 in Eq 2, so the solution is stable (the equations are absolutely well conditioned) for small changes in the coefficient of x_2 in Eq 2.

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Problem Name : tma2

Students Name : paul

Current Package : Simlin

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MATRIX A — RHS

1.00000000, 1.50000000, .750000000, .600000000, .300000000		-.05000000
.750000000, 1.00000000, .600000000, .500000000, 1.50000000		1.35000000
.600000000, .850000000, .500000000, .430000000, 1.00100000		.920000000
.500000000, .600000000, .430000000, .370000000, .750000000		.710000000
.430000000, .500000000, .370000000, .330000000, .600000000		.570000000

Method = Partial Pivot - in the the order of rows, 1, 4, 3, 5
Number of decimal places = 8
Solution only
There are 5 equations

RESULTS

MATRIX A — RHS

1.0000, 1.5000, .75000, .60000, .30000,		-.0500
.00000, -.1500, .05500, .07000, .60000,		.73500
.00000, .00000, .03166, .04666, .62100,		.70500
.00000, .00000, .00000, .01268, .00212,		.00715
.00000, .00000, .00000, .00000, .93775,		.95829

The modulus of the largest multiplier was 0.966667

X1 = -1.78602
X2 = -0.0262082
X3 = 1.64394
X4 = 0.393009
X5 = 1.0219