2) i) I chose as a method partial pivoting, as this method is most likely to reduce the build up of rounding errors & giving truer answers than other methods for most sets of equations, when inexact arithmetic is used on a computer. 1/1

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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,	1.00000000		.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

(9) d.p. will give you better accuracy -

RESULTS

MATRIX A — RHS

1.0000,	1.5000,	.75000,	.60000,	.30000,		-.0500
.00000,	-.1500,	.05500,	.07000,	.60000,		.73500
.00000,	.00000,	.03166,	.04666,	.62000,		.70500
.00000,	.00000,	.00000,	.01268,	.00194,		.00715
.00000,	.00000,	.00000,	.00000,	.93755,		.95829

The modulus of the largest multiplier was 0.966667

X1 = -1.81478
X2 = -0.0161541
X3 = 1.65059
X4 = 0.40739
X5 = 1.02213

2/2

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