

Page 51 Example 16

Link for solving simultaneous equations, not for graphing

TI-84 Plus	Casio fx-9860GII																				
<p>SYSTEM MATRIX (3×4)</p> $\begin{bmatrix} 4 & -2 & 1 & 9 \\ 4 & 2 & 1 & -7 \\ 16 & 4 & 1 & 3 \end{bmatrix}$ <p>(1,1)=4 MAIN MODE CLR LOAD SOLVE</p>	<p>$a_nX + b_nY + c_nZ = d_n$</p> <table border="1"> <thead> <tr> <th></th> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4</td> <td>-2</td> <td>1</td> <td>9</td> </tr> <tr> <td>2</td> <td>4</td> <td>2</td> <td>1</td> <td>-7</td> </tr> <tr> <td>3</td> <td>16</td> <td>4</td> <td>1</td> <td>3</td> </tr> </tbody> </table> <p>SOLV DEL CLR EDIT</p>		a	b	c	d	1	4	-2	1	9	2	4	2	1	-7	3	16	4	1	3
	a	b	c	d																	
1	4	-2	1	9																	
2	4	2	1	-7																	
3	16	4	1	3																	
<p>SOLUTION</p> <p>$x_1 = 3\frac{1}{2}$ $x_2 = -4$ $x_3 = -5$</p> <p>MAIN MODE SYS M STD VF 4 D</p>	<p>$a_nX + b_nY + c_nZ = d_n$</p> <p>$X = 3\frac{1}{2}$ $Y = -4$ $Z = -5$</p> <p>REPT</p>																				
<p>$Y_1 = 3\frac{1}{2}X^2 - 4X - 5$</p> <p>$X = -2$ $Y = 9$</p>	<p>$Y_1 = (3\frac{1}{2})X^2 - 4X - 5$</p> <p>$X = -2$ $Y = 9$</p>																				