

	5	2	16		2	3	1	11		1	3/2	1/2	11/2
2	3	1	11	⇒		5	2	16	⇒		5	2	16
1	2	2	11		1	2	2	11		1	2	2	11

Original

Pivoting: Swap row 1 (Equation 1)
with row 2 (Equation 2)

Step 1: divide row 1 by 3, no
need to divide row 2 or row 3

	1	3/2	1/2	11/2		1	3/2	1/2	11/2
⇒		5	2	16	⇒		1	2/5	16/5
		1/2	3/2	11/2			1	3	11

Step 2: subtract row 1 from row 3
(column 1 of row 2 is already 0)

Step 3: divide row 2 by 5 and row
3 by 1/2

	1	3/2	1/2	11/2		1	5/3	2/3	19/3
⇒		1	2/5	16/5	⇒		1	2/5	16/5
			13/5	39/5				1	3

Step 4: subtract row 2 from row 3

Step 5: divide row 3 by 13/5
Solution for Z!

	1	5/3	2/3	19/3		1			1
⇒		1		2	⇒		1		2
			1	3				1	3

Step 6: substitute Z solution into
equation 2. Solution for Y!

Step 7: substitute Y and Z into
equation 1. Solution for X!