

Pg# 10

⇒ Perform row operations to make pivot equal to 1 and the remaining elements in the pivot column equal to zero.
 making the pivot equal to 1.
 ($R_3 \div 3$)

	x_1	x_2	S_1	S_2	Q_1	Q_2	Z	
S_1	$\frac{1}{2}$	$\frac{1}{4}$	1	0	0	0	0	4
Q_1	1	1	0	0	1	0	0	10
Q_2	$\frac{1}{3}$	1	0	$-\frac{1}{3}$	0	$\frac{1}{3}$	0	$\frac{20}{3}$
Z	$-2m+2$	$-4m+3$	0	M	0	0	1	$-30m$

	x_1	x_2	S_1	S_2	Q_1	Q_2	Z	
S_1	$\frac{5}{12}$	0	1	$\frac{1}{12}$	0	$-\frac{1}{12}$	0	$\frac{28}{12}$
Q_1	1	1	0	0	1	0	0	10
Q_2	$\frac{1}{3}$	1	0	$-\frac{1}{3}$	0	$\frac{1}{3}$	0	$\frac{20}{3}$
Z	$-2m+2$	$-4m+3$	0	M	0	0	1	$-30m$

($-\frac{1}{4}R_3 + R_1$)