B = matrix(RR, [[1, 2, 3], [4, 5, 6]])
B

B = matrix(QQ, [[1, 2, 3], [4, 5, 6]])
B

B = matrix(QQ, [[1, 2, 3], [4, 5, 6], [7, 8, 9]])
b = vector(QQ, [6, 15, 24])
C = B.augment(b)
C

B = matrix(QQ, [[1, 2, 3], [4, 5, 6], [7, 8, 9]])
b = vector(QQ, [6, 15, 24])
C = B.augment(b, subdivide = True)
C

D = C.rref()
D

D.pivots()
D.nonpivots()
(0, 1)
(2, 3)

\[ B = \text{matrix}(\mathbb{Q}, \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \\ 7 & 8 & 9 \end{bmatrix}) \]

\[ b = \text{vector}(\mathbb{Q}, [6, 15, 24]) \]

\[ B.\text{solve}_\text{right}(b) \]

(0, 3, 0)