MTH 329 Quiz 5

Sunday, February 25, 2024

$$r_{1}^{+} = r_{1} + 5r_{3}$$

$$r_{2}^{+} = r_{2} - \frac{13}{18}r_{3}$$

$$0 \quad 1 \quad 0 \quad \frac{11}{131} \quad \frac{21}{131} \quad \frac{-13}{131}$$

$$0 \quad 0 \quad 1 \quad \frac{15}{131} \quad \frac{-19}{131} \quad \frac{18}{131}$$

Therefore,
$$\begin{bmatrix}
-1 & 4 & 5 \\
3 & 6 & -2
\end{bmatrix} = \frac{1}{131} \begin{bmatrix}
-12 & -11 & 38 \\
11 & 21 & -13 \\
15 & -19 & 18
\end{bmatrix}$$