

Let  $A$  and  $B$  be the following matrices.

$$A = \begin{bmatrix} 1 & -3 & -2 \\ -5 & 9 & 5 \\ -7 & -7 & -5 \end{bmatrix}, \quad B = \begin{bmatrix} -2 & 1 & 4 \\ 0 & 9 & 0 \\ 4 & -1 & -6 \end{bmatrix}$$

Perform the following operations:

$$-9A = \begin{bmatrix} \boxed{\phantom{00}} & \boxed{\phantom{00}} & \boxed{\phantom{00}} \\ \boxed{\phantom{00}} & \boxed{\phantom{00}} & \boxed{\phantom{00}} \\ \boxed{\phantom{00}} & \boxed{\phantom{00}} & \boxed{\phantom{00}} \end{bmatrix}$$

$$A + 10B = \begin{bmatrix} \boxed{\phantom{00}} & \boxed{\phantom{00}} & \boxed{\phantom{00}} \\ \boxed{\phantom{00}} & \boxed{\phantom{00}} & \boxed{\phantom{00}} \\ \boxed{\phantom{00}} & \boxed{\phantom{00}} & \boxed{\phantom{00}} \end{bmatrix}$$

$$-2A + 3B = \begin{bmatrix} \boxed{\phantom{00}} & \boxed{\phantom{00}} & \boxed{\phantom{00}} \\ \boxed{\phantom{00}} & \boxed{\phantom{00}} & \boxed{\phantom{00}} \\ \boxed{\phantom{00}} & \boxed{\phantom{00}} & \boxed{\phantom{00}} \end{bmatrix}$$

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Perform the following operations:

$$-9A = \begin{bmatrix} -9 & 27 & 18 \\ 45 & -81 & -45 \\ 63 & 63 & 45 \end{bmatrix}$$

$$A + 10B = \begin{bmatrix} -19 & 7 & 38 \\ -5 & 99 & 5 \\ 33 & -17 & -65 \end{bmatrix}$$

$$-2A + 3B = \begin{bmatrix} -8 & 9 & 16 \\ 10 & 9 & -10 \\ 26 & 11 & -8 \end{bmatrix}$$