

Student Name: \_\_\_\_\_

Score: \_\_\_\_\_

### Scalar Multiplication of matrices

Add/Sub: S4

Let  $A = \begin{bmatrix} 7 & 2 & 5 & 4 & 4 \\ -3 & 8 & -2 & 1 & 1 \\ 6 & 4 & -7 & 9 & 8 \end{bmatrix}$  and  $B = \begin{bmatrix} 3 & 4 & 2 & -3 & 6 \\ 2 & 8 & 1 & 5 & 5 \\ 8 & -3 & 9 & 6 & 7 \end{bmatrix}$ . Find  $3A-2B$ .

Let  $A = \begin{bmatrix} -1 & 2 \\ 7 & 8 \\ -3 & 5 \\ 11 & 2 \\ 6 & 4 \end{bmatrix}$  and  $B = \begin{bmatrix} 1 \\ 3 \\ 2 \end{bmatrix}$

Let  $A = \begin{bmatrix} 49 & 21 & 56 \\ 28 & 35 & -21 \\ -14 & 7 & 6 \\ -35 & 2 & -3 \\ -7 & 63 & 4 \end{bmatrix}$  and

Let  $A = \begin{bmatrix} -15 & 18 \\ 36 & -6 \\ 21 & 27 \\ 3 & 9 \\ -18 & -39 \\ 12 & -4 \end{bmatrix}$  and  $B = \begin{bmatrix} -6 & 10 \\ -16 & 4 \\ -8 & -6 \\ 12 & 26 \\ -18 & 2 \end{bmatrix}$ . Find  $\frac{5}{3}A + \frac{7}{2}B$ .

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Answer key

## Scalar Multiplication of matrices

Add/Sub: S4

$$\begin{bmatrix} 15 & -2 & 11 & 18 & 0 \\ -13 & 8 & -8 & -7 & -7 \\ 2 & 18 & -39 & 15 & 10 \end{bmatrix}$$

$$\begin{bmatrix} -\frac{24}{5} & \frac{34}{5} \\ \frac{122}{5} & 34 \\ -16 & \frac{76}{5} \\ 30 & -8 \\ 22 & 46 \end{bmatrix}$$

$$\begin{bmatrix} -3 & -21 & 10 \\ 6 & 5 & -27 \\ -20 & -13 & \frac{172}{7} \\ -31 & \frac{14}{3} & \frac{-79}{7} \\ -21 & 39 & \frac{54}{7} \end{bmatrix}$$

$$\begin{bmatrix} 24 & 128 \\ 39 & 25 \\ -21 & 59 \\ -23 & -6 \\ 12 & 26 \\ -43 & \frac{1}{3} \end{bmatrix}$$

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