

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

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

### Scalar Multiplication of matrices

Add/Sub: S3

Let  $A = \begin{bmatrix} -1 & 2 & 3 & -4 & 1 \\ 6 & -3 & 8 & 2 & 3 \end{bmatrix}$  and  $B = \begin{bmatrix} 3 & 5 & 6 & -7 & -12 \\ 1 & 9 & -15 & 4 & -30 \end{bmatrix}$ . Find  $5A + \frac{4}{3}B$ .

Let  $A = \begin{bmatrix} 16 & -17 \\ 2 & -4 \\ 3 & 3 \\ 7 & 2 \\ 8 & -4 \end{bmatrix}$  and  $B = \begin{bmatrix} \phantom{16} & \phantom{-17} \\ \phantom{2} & \phantom{-4} \\ \phantom{3} & \phantom{3} \\ \phantom{7} & \phantom{2} \\ \phantom{8} & \phantom{-4} \end{bmatrix}$

Let  $A = \begin{bmatrix} 8 & 7 & 2 & 1 & 4 \\ 4 & 3 & -5 & 12 & 9 \\ 6 & 3 & 2 & 1 & 8 \end{bmatrix}$  and

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Let  $A = \begin{bmatrix} 7 & 2 & 4 & 5 & 9 \\ -12 & 8 & 9 & -11 & 3 \\ -3 & 4 & 5 & -10 & 2 \end{bmatrix}$  and  $B = \begin{bmatrix} 6 & 15 & 12 & -9 & 3 \\ 24 & 3 & -3 & 18 & 6 \\ -36 & -12 & 4 & -5 & 27 \end{bmatrix}$ . Find  $-6A - \frac{2}{3}B$ .

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Answer key

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$$\begin{bmatrix} -1 & \frac{50}{3} & 23 & \frac{-88}{3} & -11 \\ \frac{94}{3} & -3 & 20 & \frac{46}{3} & -25 \end{bmatrix}$$

$$\begin{bmatrix} 50 & -10 \\ 28 & 22 \\ 36 & 42 \\ -28 & -8 \\ 58 & 46 \end{bmatrix}$$

$$\begin{bmatrix} 74 & 61 & -7 & 10 & 31 \\ 22 & 39 & -26 & 108 & 90 \\ 54 & 36 & 38 & 28 & 50 \end{bmatrix}$$

$$\begin{bmatrix} -46 & -22 & -32 & -24 & -56 \\ 56 & -50 & -52 & 54 & -22 \\ 42 & -16 & \frac{-98}{3} & \frac{190}{3} & -30 \end{bmatrix}$$

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