

Student Name: _____

Score: _____

Scalar Multiplication of matrices

Add/Sub: S1

$$7 \begin{bmatrix} 2 \\ 3 \\ -5 \\ 6 \end{bmatrix} - \frac{3}{4} \begin{bmatrix} 16 \\ -5 \\ 24 \\ 12 \end{bmatrix} =$$

$$5 \begin{bmatrix} -1 & -3 & -12 & 6 & 9 \\ 13 & 15 & 20 & -2 & -4 \end{bmatrix} + \frac{2}{3} \begin{bmatrix} 15 & 4 & -2 & 12 & 21 \\ 5 & -3 & 9 & 5 & -3 \end{bmatrix} =$$

$$-3 \begin{bmatrix} 15 \\ -7 \\ 12 \\ 27 \end{bmatrix} - \frac{5}{2} \begin{bmatrix} 6 \\ 8 \\ -2 \\ -10 \end{bmatrix} =$$

$$-\frac{2}{3} \begin{bmatrix} 16 & 18 & 2 & -6 & 3 \\ -5 & 4 & 9 & 2 & 1 \end{bmatrix} + 7 \begin{bmatrix} & & & & \\ & & & & \end{bmatrix} =$$

$$6 \begin{bmatrix} 12 & 3 \\ 4 & 5 \\ -7 & 9 \\ 2 & 2 \\ 1 & 4 \end{bmatrix} - 4 \begin{bmatrix} 16 & 3 \\ 6 & 5 \\ 2 & -3 \\ 1 & 9 \\ -3 & 5 \end{bmatrix} =$$

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Answer key

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$$7 \begin{bmatrix} 2 \\ 3 \\ -5 \\ 6 \end{bmatrix} - \frac{3}{4} \begin{bmatrix} 16 \\ -5 \\ 24 \\ 12 \end{bmatrix} = \begin{bmatrix} 2 \\ 99 \\ 4 \\ -53 \\ 33 \end{bmatrix}$$

$$5 \begin{bmatrix} -1 & -3 & -12 & 6 \\ 13 & 15 & 20 & -2 \end{bmatrix} + \begin{bmatrix} 5 & -37 & -184 & 38 & 59 \\ 106 & -20 & -22 \end{bmatrix}$$

$$-3 \begin{bmatrix} 15 \\ -7 \\ 12 \\ 27 \end{bmatrix} - \frac{5}{2} \begin{bmatrix} 6 \\ 8 \\ -2 \\ -10 \end{bmatrix} = \begin{bmatrix} -15 \\ 17 \\ -17 \\ 45 \\ 1 \end{bmatrix}$$

$$-\frac{2}{3} \begin{bmatrix} 16 & 18 & 2 & -6 \\ -5 & 4 & 9 & 2 \end{bmatrix}$$

$$6 \begin{bmatrix} 12 & 3 \\ 4 & 5 \\ -7 & 9 \\ 2 & 2 \\ 1 & 4 \end{bmatrix} - 4 \begin{bmatrix} 16 & 3 \\ 6 & 5 \\ 2 & -3 \\ 1 & 9 \\ -3 & 5 \end{bmatrix} = \begin{bmatrix} 8 & 6 \\ 0 & 10 \\ -50 & 66 \\ 8 & -24 \\ 18 & 4 \end{bmatrix}$$

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