

Student Name: _____

Score: _____

Scalar Multiplication of matrices

Add/Sub: S2

$$\frac{3}{2} \begin{bmatrix} -2 \\ 4 \\ 12 \\ -17 \end{bmatrix} + 7 \begin{bmatrix} 11 \\ -5 \\ 6 \\ 9 \end{bmatrix} =$$

$$9 \begin{bmatrix} -2 & -3 & 1 & 7 & 8 \\ 6 & 2 & 5 & 4 & -5 \end{bmatrix} - 6 \begin{bmatrix} 4 & 3 & 2 & 2 & 1 \\ 11 & -6 & 15 & -5 & 4 \end{bmatrix} =$$

$$\frac{4}{5} \begin{bmatrix} \frac{25}{4} \\ 4 \\ -8 \\ -30 \\ 5 \end{bmatrix} - 8 \begin{bmatrix} -3 \\ 4 \\ 5 \\ 7 \end{bmatrix} =$$

$$\frac{3}{4} \begin{bmatrix} 16 & -80 & 2 & -20 & 8 \\ \frac{8}{9} & 12 & -12 & 7 & \frac{1}{3} \end{bmatrix} -$$

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$$-4 \begin{bmatrix} 2 & 2 \\ 3 & 3 \\ -5 & 6 \\ 7 & -12 \\ 6 & 8 \end{bmatrix} + 4 \begin{bmatrix} 3 & 2 \\ 5 & 8 \\ 12 & 5 \\ 9 & 3 \\ 7 & 9 \end{bmatrix} =$$

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Answer key

Scalar Multiplication of matrices

Add/Sub: S2

$$\frac{3}{2} \begin{bmatrix} -2 \\ 4 \\ 12 \\ -17 \end{bmatrix} + 7 \begin{bmatrix} 11 \\ -5 \\ 6 \\ 9 \end{bmatrix} = \begin{bmatrix} 74 \\ -29 \\ 60 \\ \frac{75}{2} \end{bmatrix}$$

$$9 \begin{bmatrix} -2 & -3 & 1 & 7 & 8 \\ 6 & 2 & 5 & 4 & -5 \end{bmatrix} + \begin{bmatrix} 4 & 3 & 2 & 2 & 1 \end{bmatrix} = \begin{bmatrix} -12 & -45 & -3 & 51 & 66 \\ -69 & & & & \end{bmatrix}$$

$$\frac{4}{5} \begin{bmatrix} \frac{25}{4} \\ -8 \\ -30 \\ 5 \end{bmatrix} - 8 \begin{bmatrix} -3 \\ 4 \\ 5 \\ 7 \end{bmatrix} = \begin{bmatrix} 2 \\ -1 \\ -2 \\ -1 \\ -1 \end{bmatrix}$$

$$\frac{3}{4} \begin{bmatrix} 16 & -80 & 2 & -2 \\ 8 & 12 & -12 & 7 \end{bmatrix} = \begin{bmatrix} -33 & 0 \\ -75 & -83 \\ 4 & 4 \end{bmatrix}$$

$$-4 \begin{bmatrix} 2 & 2 \\ 3 & 3 \\ -5 & 6 \\ 7 & -12 \\ 6 & 8 \end{bmatrix} + 4 \begin{bmatrix} 3 & 2 \\ 5 & 8 \\ 12 & 5 \\ 9 & 3 \\ 7 & 9 \end{bmatrix} = \begin{bmatrix} 4 & 0 \\ 8 & 20 \\ 68 & -4 \\ 8 & 60 \\ 4 & 4 \end{bmatrix}$$

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