

Student Name: _____

Score: _____

Scalar Multiplication of matrices

Sheet 3

Let $A = [12 \ 5 \ -7 \ 18]$. Find $9A$.

Let $A = \begin{bmatrix} -8 & 11 \\ 7 & 5 \\ 6 & -12 \\ 4 & 8 \\ 4 & -10 \end{bmatrix}$. Find $\frac{7}{2}A$.

Let $A = \begin{bmatrix} 2 & 3 & 4 & -5 & 8 \\ 7 & 3 & 11 & -2 & 9 \end{bmatrix}$.

Let $A = [77 \ -56 \ 28 \ -12]$.

Let $A = \begin{bmatrix} 23 & -5 \\ 8 & 7 \\ -12 & 9 \\ 3 & 4 \\ -6 & 5 \end{bmatrix}$. Find $-5A$.

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Answer key

Scalar Multiplication of matrices

Sheet 3

$$\begin{bmatrix} 108 & 45 & -63 & 162 \end{bmatrix}$$

$$\begin{bmatrix} -28 & \frac{77}{2} \\ \frac{49}{2} & \frac{35}{2} \\ 21 & -42 \\ 14 & 28 \\ 14 & -35 \end{bmatrix}$$

$$\begin{bmatrix} 16 & 24 & 32 & -40 & 64 \\ 56 & 24 & 88 & -16 & 72 \end{bmatrix}$$

$$\begin{bmatrix} -66 & 48 & -24 & \frac{72}{7} \end{bmatrix}$$

$$\begin{bmatrix} -115 & 25 \\ -40 & -35 \\ 60 & -45 \\ -15 & -20 \\ 30 & -25 \end{bmatrix}$$

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