

Student Name: _____

Score: _____

Scalar Multiplication of matrices

Sheet 2

Let $A = \begin{bmatrix} 20 & 2 & 35 & 1 & 2 \\ -5 & 6 & 10 & 3 & 8 \end{bmatrix}$. Find $\frac{2}{5}A$.

Let $A = \begin{bmatrix} 6 & -5 \\ 12 & 8 \\ 10 & -15 \\ -3 & 9 \\ 7 & -2 \end{bmatrix}$. Find $-4A$.

Let $A = \begin{bmatrix} 2 & 2 & -3 & 1 & 1 \\ 6 & -4 & 14 & -8 & - \end{bmatrix}$.

Let $A = [13 \quad -7 \quad 21 \quad 9]$. Find $3A$.

Let $A = \begin{bmatrix} -3 & 6 & 21 & 1 & 2 \\ 3 & 9 & 3 & 15 & 12 \end{bmatrix}$. Find $\frac{2}{3}A$.

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Answer key

Scalar Multiplication of matrices

Sheet 2

$$\begin{bmatrix} 8 & \frac{4}{5} & 14 & \frac{2}{5} & \frac{4}{5} \\ -2 & \frac{12}{5} & 4 & \frac{6}{5} & \frac{16}{5} \end{bmatrix}$$

$$\begin{bmatrix} -24 & 20 \\ -48 & -32 \\ -40 & 60 \\ 12 & -36 \\ -28 & 8 \end{bmatrix}$$

$$\begin{bmatrix} -9 & -9 & \frac{27}{2} & \frac{-9}{2} & -81 \\ -27 & 18 & -63 & 36 & \frac{27}{2} \end{bmatrix}$$

$$[39 \quad -21 \quad 63 \quad 27]$$

$$\begin{bmatrix} -2 & 4 & 14 & \frac{2}{3} & \frac{4}{3} \\ 2 & 6 & 2 & 10 & 8 \end{bmatrix}$$

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