

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

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

### Multiplication of matrices

Sheet 5

Find the product of the following matrices:

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

$$\begin{bmatrix} -1 & 3 & 4 \\ 13 & 5 & 7 \end{bmatrix} \begin{bmatrix} 2 & -7 \\ 4 & 3 \\ 6 & 1 \end{bmatrix} =$$

$$\begin{bmatrix} -11 & 5 \\ 7 & 2 \\ 6 & 14 \end{bmatrix} \begin{bmatrix} 4 & -3 & 2 \\ 5 & 2 & 1 \end{bmatrix} =$$

$$\begin{bmatrix} 7 & -2 \\ -3 & 5 \end{bmatrix} \begin{bmatrix} 2 & 2 \\ -5 & 6 \end{bmatrix} =$$

$$\begin{bmatrix} 2 & -6 & 11 \end{bmatrix} \begin{bmatrix} 16 \\ -5 \\ 2 \end{bmatrix} =$$

# PREVIEW

Access the largest collection of  
worksheets for just **\$19.95** per year!

Members, please  
log in to  
download this  
worksheet.

**Log in**

Not a member?  
Please sign up to  
gain complete  
access.

**Sign up**

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

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

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

Answer key

## Multiplication of matrices

Sheet 5

$$\begin{bmatrix} 6 & -2 & 5 \\ 1 & 6 & 2 \\ -3 & 4 & 7 \end{bmatrix} \begin{bmatrix} -4 \\ 8 \\ 3 \end{bmatrix} = \begin{bmatrix} -25 \\ 50 \\ 65 \end{bmatrix}$$

$$\begin{bmatrix} -1 & 3 & 4 \\ 13 & 5 & 7 \end{bmatrix} \begin{bmatrix} 2 & -7 \\ 4 & 3 \\ 6 & 1 \end{bmatrix} = \begin{bmatrix} 3 \\ 8 \end{bmatrix}$$

$$\begin{bmatrix} -11 & 5 \\ 7 & 2 \\ 6 & 14 \end{bmatrix} \begin{bmatrix} 4 & -3 & 2 \\ 5 & 2 & 1 \end{bmatrix} =$$

$$\begin{bmatrix} 7 & -2 \\ -3 & 5 \end{bmatrix} \begin{bmatrix} 2 & 2 \\ -5 & 6 \end{bmatrix} = \begin{bmatrix} 24 \\ -3 \end{bmatrix}$$

$$\begin{bmatrix} 2 & -6 & 11 \end{bmatrix} \begin{bmatrix} 16 \\ -5 \\ 2 \end{bmatrix} = \begin{bmatrix} 84 \end{bmatrix}$$

# PREVIEW

Access the largest collection of  
worksheets for just **\$19.95** per year!

Members, please  
log in to  
download this  
worksheet.

**Log in**

Not a member?  
Please sign up to  
gain complete  
access.

**Sign up**

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)