

## Algebra 2 - Multiplying Matrices

The video covers the following exercises. Please print this sheet and work along!

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} \begin{pmatrix} -3 & 0 \\ 5 & 7 \end{pmatrix} = \begin{pmatrix} & \\ & \end{pmatrix}$$

$$\begin{pmatrix} 1 & 2 & 3 \\ 0 & -1 & 6 \end{pmatrix} \begin{pmatrix} 5 & 3 \\ 4 & 2 \\ -1 & 0 \end{pmatrix} =$$

Can the order in which matrices multiply be switched?

$$\begin{pmatrix} 5 & 3 \\ 4 & 2 \\ -1 & 0 \end{pmatrix} \begin{pmatrix} 1 & 2 & 3 \\ 0 & -1 & 6 \end{pmatrix} =$$

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} \begin{pmatrix} -1 \\ 6 \end{pmatrix} =$$

$$\begin{pmatrix} -1 \\ 6 \end{pmatrix} \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} =$$

$$\begin{pmatrix} -1 \\ 6 \end{pmatrix} \begin{pmatrix} 1 & 2 & 3 \end{pmatrix} =$$