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Algebra 2 - Inverse Matrices

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

First, what does a 2x2 "Identity Matrix" look like?

$$\left(\begin{array}{cc} & \\ & \end{array} \right)$$

What is the inverse of these 2x2 matrices?

$$\left(\begin{array}{cc} 5 & -2 \\ -4 & 2 \end{array} \right)$$

$$\left(\begin{array}{cc} 7 & 4 \\ 2 & 1 \end{array} \right)$$

Calculator activity: what is the inverse of the following 3x3 matrix?

$$\left(\begin{array}{ccc} 1 & 2 & 1 \\ -3 & 4 & 5 \\ -2 & 0 & 1 \end{array} \right)$$