

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

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

## Inverse matrix

Sheet 2

Find the inverse of the following matrices:

$$\begin{bmatrix} 1 & 2 & 3 \\ 4 & -1 & 1 \\ 2 & 2 & 3 \end{bmatrix}$$

$$\begin{bmatrix} -7 & 2 & 4 \\ -1 & 3 & 3 \\ 1 & 2 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 2 & 0 & 1 \\ -1 & 2 & 3 \\ -4 & 3 & 2 \end{bmatrix}$$

$$\begin{bmatrix} -9 & -3 & -1 \\ 2 & 1 & 1 \\ -3 & 1 & 2 \end{bmatrix}$$

$$\begin{bmatrix} 8 & -2 & 1 \\ -2 & 6 & 3 \\ 2 & 1 & 1 \end{bmatrix}$$

$$\begin{bmatrix} -4 & -5 & 3 \\ 2 & 2 & 1 \\ -1 & -1 & 3 \end{bmatrix}$$

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### Answer Key

## Inverse matrix

Sheet 2

$$\begin{bmatrix} -1 & 0 & 1 \\ -2 & -\frac{3}{5} & \frac{11}{5} \\ 2 & \frac{2}{5} & -\frac{9}{5} \end{bmatrix}$$

$$\begin{bmatrix} -\frac{1}{3} & \frac{2}{3} & -\frac{2}{3} \\ \frac{4}{9} & -\frac{11}{9} & \frac{17}{9} \\ -\frac{5}{9} & \frac{16}{9} & -\frac{19}{9} \end{bmatrix}$$

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

$$\begin{bmatrix} \frac{1}{7} & \frac{5}{7} & -\frac{2}{7} \\ -1 & -3 & 1 \\ \frac{5}{7} & \frac{18}{7} & -\frac{3}{7} \end{bmatrix}$$

$$\begin{bmatrix} -\frac{1}{2} & -\frac{1}{2} & 2 \\ -\frac{4}{3} & -1 & \frac{13}{3} \\ \frac{7}{3} & 2 & -\frac{22}{3} \end{bmatrix}$$

$$\begin{bmatrix} -\frac{1}{7} & \frac{7}{7} & \frac{7}{7} \\ 0 & \frac{1}{7} & \frac{2}{7} \end{bmatrix}$$

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