Name: _____

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Find the inverses of the following matrices if they have an inverse, and tell how you know they do not have an inverse if they do not.

1. (1 pt)

$$\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$$

2. (1 pt)

$$\begin{bmatrix} 4 & 0 \\ 0 & \frac{1}{9} \end{bmatrix}$$

3. (2 pts)

$$\begin{bmatrix} 0 & 4 \\ \frac{1}{9} & 0 \end{bmatrix}$$

4. (2 pts)

$$\begin{bmatrix} 0 & 3 & 6 \\ 2 & 0 & 4 \\ 2 & 3 & 10 \end{bmatrix}$$

5. (4 pts)

$$\begin{bmatrix} 0 & 3 & 6 \\ 2 & 0 & 4 \\ 2 & 3 & 11 \end{bmatrix}$$