Name: $\qquad$ Date: $\qquad$

## Find whether inverse does exist for the given matrices:

1) 

$\left[\begin{array}{cc}-4 & 3 \\ 8 & 2\end{array}\right]$
$\Delta=$
Conclusion: $\qquad$
3)

$$
\left[\begin{array}{cc}
8 & 16 \\
2 & 4
\end{array}\right]
$$

$$
\Delta=
$$

$\qquad$
Conclusion: $\qquad$
5)

$$
\left[\begin{array}{ll}
8 & 2 \\
9 & 3
\end{array}\right]
$$

$$
\Delta=
$$

$\qquad$
Conclusion: $\qquad$
7)

$$
\begin{aligned}
& {\left[\begin{array}{ll}
15 & 5 \\
12 & 4
\end{array}\right]} \\
& \Delta=
\end{aligned}
$$

Conclusion: $\qquad$
2)

$$
\Delta=
$$

Conclusion:

$$
\left[\begin{array}{ll}
6 & -1 \\
2 & -3
\end{array}\right]
$$

$\qquad$
$\qquad$
4)

$$
\Delta=
$$

$\qquad$
Conclusion: $\qquad$
6)
$\left[\begin{array}{cc}9 & -18 \\ 4 & -8\end{array}\right]$

$$
\Delta=
$$

$\qquad$
Conclusion: $\qquad$
8)

$$
\left[\begin{array}{ll}
9 & 5 \\
4 & 3
\end{array}\right]
$$

$$
\Delta=
$$

$\qquad$
Conclusion: $\qquad$
$\qquad$ Date: $\qquad$
Find whether inverse does exist for the given matrices:
1)

$$
\left[\begin{array}{cc}
-4 & 3 \\
8 & 2
\end{array}\right]
$$

$$
\Delta=-32 \neq 0
$$

Conclusion: Inverse Exist
3)

$$
\left[\begin{array}{cc}
8 & 16 \\
2 & 4
\end{array}\right]
$$

$$
\Delta=0
$$

Conclusion: Inverse Does Not Exist
5)

$$
\left[\begin{array}{ll}
8 & 2 \\
9 & 3
\end{array}\right]
$$

$$
\Delta=6 \neq 0
$$

Conclusion: Inverse Exist
7)

$$
\left[\begin{array}{ll}
15 & 5 \\
12 & 4
\end{array}\right]
$$

$$
\Delta=0
$$

Conclusion: Inverse Does Not Exist
2)

$$
\left[\begin{array}{ll}
6 & -1 \\
2 & -3
\end{array}\right]
$$

$$
\Delta=-16 \neq 0
$$

Conclusion: Inverse Exist
4)

$$
\Delta=0
$$

Conclusion: Inverse Does Not Exist
6)

$$
\Delta=0
$$

Conclusion: Inverse Does Not Exist
8)

$$
\left[\begin{array}{ll}
9 & 5 \\
4 & 3
\end{array}\right]
$$

$$
\Delta=7 \neq 0
$$

Conclusion: Inverse Exist

