

Name _____

Date _____

Determinants and Inverses of 2 x 2 Matrices - Matching Worksheet

Write the letter of the answer that matches the problem.

Find the inverse for the following matrices.

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

a. $\begin{bmatrix} 1/7 & 8/63 \\ 0 & -1/9 \end{bmatrix}$

2.
— $\begin{bmatrix} 6 & 0 \\ 4 & -3 \end{bmatrix}$

b. $\begin{bmatrix} 7/30 & 4/30 \\ 4/30 & -1/15 \end{bmatrix}$

3.
— $\begin{bmatrix} 7 & 8 \\ 0 & -9 \end{bmatrix}$

c. $\begin{bmatrix} 1/6 & 0 \\ 4/18 & -1/3 \end{bmatrix}$

Calculate the determinant of the matrix:

4.
— $\begin{bmatrix} 5 & -7 \\ 2 & 1 \end{bmatrix}$

d. -12

5.
— $\begin{bmatrix} -4 & 1 \\ 3 & 8 \end{bmatrix}$

e. 19

6.
— $\begin{bmatrix} -6 & 0 \\ 1 & 2 \end{bmatrix}$

f. -35

