

Math 1513 - College Algebra

Discussion Board Week 15 - Due 2016.05.01

Compute the determinant of each of the following matrices twice. The first time by expanding along the first row, the second by expanding along the second column.

1.
$$\begin{bmatrix} 2 & -2 & 3 \\ 1 & 2 & 5 \\ -3 & 0 & 1 \end{bmatrix}$$

2.
$$\begin{bmatrix} 5 & 1 & 3 \\ 1 & 3 & -8 \\ -3 & 2 & 0 \end{bmatrix}$$

3.
$$\begin{bmatrix} 5 & 1 & 3 \\ 0 & -2 & -6 \\ 6 & -7 & 1 \end{bmatrix}$$

4.
$$\begin{bmatrix} 2 & 1 & -8 \\ 3 & 0 & 2 \\ 4 & 5 & 0 \end{bmatrix}$$

5.
$$\begin{bmatrix} -5 & 0 & 3 \\ 1 & 3 & -5 \\ 6 & 2 & 0 \end{bmatrix}$$

6.
$$\begin{bmatrix} 4 & 0 & 2 \\ 1 & 5 & -6 \\ -3 & 6 & 1 \end{bmatrix}$$

7.
$$\begin{bmatrix} 0 & 9 & -3 \\ -1 & 8 & 5 \\ 3 & 5 & -4 \end{bmatrix}$$

8.
$$\begin{bmatrix} 0 & 2 & 3 \\ -1 & 8 & 5 \\ 3 & -5 & -4 \end{bmatrix}$$

9.
$$\begin{bmatrix} -3 & 4 & -5 \\ 0 & -7 & 2 \\ 3 & 5 & -3 \end{bmatrix}$$

10.
$$\begin{bmatrix} 6 & -4 & 8 \\ 1 & 2 & 1 \\ -7 & 3 & 0 \end{bmatrix}$$

11.
$$\begin{bmatrix} -3 & 4 & 6 \\ 1 & -7 & 2 \\ 3 & 4 & 8 \end{bmatrix}$$

12.
$$\begin{bmatrix} 1 & 2 & 5 \\ 2 & -2 & 3 \\ -3 & 0 & 1 \end{bmatrix}$$

13.
$$\begin{bmatrix} 1 & 3 & -8 \\ -3 & 2 & 0 \\ 5 & 1 & 3 \end{bmatrix}$$

14.
$$\begin{bmatrix} 5 & 1 & 3 \\ 6 & -7 & 1 \\ 0 & -2 & -6 \end{bmatrix}$$

15.
$$\begin{bmatrix} 3 & 0 & 2 \\ 4 & 5 & 0 \\ 2 & 1 & -8 \end{bmatrix}$$

16.
$$\begin{bmatrix} 1 & 3 & -5 \\ -5 & 0 & 3 \\ 6 & 2 & 0 \end{bmatrix}$$

$$\begin{array}{l} 17. \left[\begin{array}{ccc} 1 & 5 & -6 \\ 4 & 0 & 2 \\ -3 & 6 & 1 \end{array} \right] \\ 18. \left[\begin{array}{ccc} -1 & 8 & 5 \\ 0 & 9 & -3 \\ 3 & 5 & -4 \end{array} \right] \\ 19. \left[\begin{array}{ccc} -1 & 8 & 5 \\ 0 & 2 & 3 \\ 3 & -5 & -4 \end{array} \right] \\ 20. \left[\begin{array}{ccc} 0 & -7 & 2 \\ -3 & 4 & -5 \\ 3 & 5 & -3 \end{array} \right] \\ 21. \left[\begin{array}{ccc} 1 & 2 & 1 \\ 6 & -4 & 8 \\ -7 & 3 & 0 \end{array} \right] \\ 22. \left[\begin{array}{ccc} 1 & -7 & 2 \\ -3 & 4 & 6 \\ 3 & 4 & 8 \end{array} \right] \\ 23. \left[\begin{array}{ccc} 5 & -7 & 0 \\ -3 & 8 & -5 \\ 3 & 5 & -1 \end{array} \right] \\ 24. \left[\begin{array}{ccc} -1 & 2 & 8 \\ 6 & 5 & 0 \\ -7 & -3 & 1 \end{array} \right] \\ 25. \left[\begin{array}{ccc} 6 & -7 & 2 \\ 8 & -4 & 0 \\ 3 & 2 & -8 \end{array} \right] \end{array}$$