

## Assignment

Evaluate each determinant.

1)  $\begin{vmatrix} 1 & 1 \\ 4 & 5 \end{vmatrix}$

2)  $\begin{vmatrix} 4 & -3 \\ -8 & 4 \end{vmatrix}$

3)  $\begin{vmatrix} -2 & -3 \\ 7 & 5 \end{vmatrix}$

4)  $\begin{vmatrix} 8 & 1 \\ -3 & 3 \end{vmatrix}$

5)  $\begin{vmatrix} -6 & 5 \\ -5 & -5 \end{vmatrix}$

6)  $\begin{vmatrix} -3 & 1 \\ 0 & -6 \end{vmatrix}$

7)  $\begin{vmatrix} 0 & 5 \\ -3 & -7 \end{vmatrix}$

8)  $\begin{vmatrix} 4 & -7 \\ 2 & -7 \end{vmatrix}$

9)  $\begin{vmatrix} 7 & 5 \\ -1 & 1 \end{vmatrix}$

10)  $\begin{vmatrix} -3 & -3 \\ 2 & 0 \end{vmatrix}$

11)  $\begin{vmatrix} -7 & -8 \\ 4 & 0 \end{vmatrix}$

12)  $\begin{vmatrix} 0 & -8 \\ 7 & 8 \end{vmatrix}$

13)  $\begin{vmatrix} -2 & 1 & -1 \\ 4 & 4 & 1 \\ -6 & -3 & 0 \end{vmatrix}$

14)  $\begin{vmatrix} 1 & -6 & 5 \\ 0 & -1 & -2 \\ 2 & -5 & 4 \end{vmatrix}$

15)  $\begin{vmatrix} 5 & -6 & -4 \\ -5 & -7 & -6 \\ -6 & 7 & 0 \end{vmatrix}$

16)  $\begin{vmatrix} -7 & 3 & -5 \\ -2 & -5 & 6 \\ 2 & 5 & 4 \end{vmatrix}$

17)  $\begin{vmatrix} -4 & -4 & 2 \\ -7 & 5 & 3 \\ -6 & 3 & 0 \end{vmatrix}$

18)  $\begin{vmatrix} 3 & 5 & 7 \\ -1 & 1 & 3 \\ -6 & 6 & 1 \end{vmatrix}$

19)  $\begin{vmatrix} -1 & -3 & 1 \\ 4 & -1 & 0 \\ 1 & -6 & 4 \end{vmatrix}$

20)  $\begin{vmatrix} 6 & -2 & 6 \\ 2 & -5 & 0 \\ 1 & 4 & 4 \end{vmatrix}$

## Assignment

Evaluate each determinant.

$$1) \begin{vmatrix} 1 & 1 \\ 4 & 5 \end{vmatrix}$$

1

$$2) \begin{vmatrix} 4 & -3 \\ -8 & 4 \end{vmatrix}$$

-8

$$3) \begin{vmatrix} -2 & -3 \\ 7 & 5 \end{vmatrix}$$

11

$$4) \begin{vmatrix} 8 & 1 \\ -3 & 3 \end{vmatrix}$$

27

$$5) \begin{vmatrix} -6 & 5 \\ -5 & -5 \end{vmatrix}$$

55

$$6) \begin{vmatrix} -3 & 1 \\ 0 & -6 \end{vmatrix}$$

18

$$7) \begin{vmatrix} 0 & 5 \\ -3 & -7 \end{vmatrix}$$

15

$$8) \begin{vmatrix} 4 & -7 \\ 2 & -7 \end{vmatrix}$$

-14

$$9) \begin{vmatrix} 7 & 5 \\ -1 & 1 \end{vmatrix}$$

12

$$10) \begin{vmatrix} -3 & -3 \\ 2 & 0 \end{vmatrix}$$

6

$$11) \begin{vmatrix} -7 & -8 \\ 4 & 0 \end{vmatrix}$$

32

$$12) \begin{vmatrix} 0 & -8 \\ 7 & 8 \end{vmatrix}$$

56

$$13) \begin{vmatrix} -2 & 1 & -1 \\ 4 & 4 & 1 \\ -6 & -3 & 0 \end{vmatrix}$$

-24

$$14) \begin{vmatrix} 1 & -6 & 5 \\ 0 & -1 & -2 \\ 2 & -5 & 4 \end{vmatrix}$$

20

$$15) \begin{vmatrix} 5 & -6 & -4 \\ -5 & -7 & -6 \\ -6 & 7 & 0 \end{vmatrix}$$

302

$$16) \begin{vmatrix} -7 & 3 & -5 \\ -2 & -5 & 6 \\ 2 & 5 & 4 \end{vmatrix}$$

410

$$17) \begin{vmatrix} -4 & -4 & 2 \\ -7 & 5 & 3 \\ -6 & 3 & 0 \end{vmatrix}$$

126

$$18) \begin{vmatrix} 3 & 5 & 7 \\ -1 & 1 & 3 \\ -6 & 6 & 1 \end{vmatrix}$$

-136

$$19) \begin{vmatrix} -1 & -3 & 1 \\ 4 & -1 & 0 \\ 1 & -6 & 4 \end{vmatrix}$$

29

$$20) \begin{vmatrix} 6 & -2 & 6 \\ 2 & -5 & 0 \\ 1 & 4 & 4 \end{vmatrix}$$

-26