Answer on Question #55843 – Math – Linear Algebra

6. Compute the determinant of : | | -2-314| | |

Solution

$$\begin{vmatrix} -2 & -3 \\ 1 & 4 \end{vmatrix} = -2*4-1*(-3)=-8+3=-5$$
Answer: -5.

7. Compute the determinant of : | | -1-4-1-2| | |

Solution

$$\begin{vmatrix} -1 & -4 \\ -1 & -2 \end{vmatrix}$$
 =-1*(-2)-(-1)*(-4)=2-4=-2

Answer: -2.

8. Two systems of linear equations involving the same variables are said to be ______ if they have the same solution set.

set associative equivalent parallel

Answer: equivalent

9. A + (B + C)= (A + B) + C associative scalar quantity dot product

Answer: associative

10. A + B = B + A associative m commutative m-n

Answer: commutative