1. If $A=\begin{bmatrix} 2 & 0 & 3 \\ 0 & 3 & 2 \\ -2 & 0 & -4 \end{bmatrix}$, then $[\text{adj}(A)_{32}] = ?$

(a) 4 (b) -4 (c) 0 (d) -9

2. If $4x + 5y = 2$

$11x + y + 2z = 3$ then by

$x + 5y + 2z = 1$

Cramer's rule $x = \det(A_1)/\det(A)$ .What is $[A_1]_{22}$?

(a) 2 (b) -4 (c) 0 (d) 4 (送)

3. What is the area of a triangle with one point being the origin and the other two points are (-1,2) and (3,1)?

(a) 3 (b) 3.5 (c) 4 (d) 4.5

4. If $u \in R^4$, $u=(1,3,2,5)$,then $||u|| = ?$

(a) $\sqrt{39}$ (b) $\sqrt{29}$ (c) $\sqrt{11}$ (d) 3

5. If $u,v \in R^3$,$u=(3,5,1)$ $v=(1,4,6)$,then $d(u,v)= ?$

(a) $\sqrt{13}$ (b) $\sqrt{20}$ (c) $\sqrt{30}$ (d) $\sqrt{35}$