|a)  
(1, 3, 1) 
$$\times$$
 (2, -1, 5) =  $\begin{vmatrix} \hat{1} & \hat{3} & \hat{k} \\ 1 & 3 & 1 \\ 2 & -1 & 5 \end{vmatrix}$  =  $\begin{vmatrix} 3 & 1 \\ 1 & 3 & 1 \\ 2 & -1 & 5 \end{vmatrix}$   $\hat{k}$  =  $\begin{vmatrix} 1 & 1 & 1 \\ 2 & -1 & 5 \end{vmatrix}$   $\hat{k}$  =  $\begin{vmatrix} 1 & 3 & 1 \\ 3 & -1 & 5 \end{vmatrix}$   $\hat{k}$  =  $\begin{vmatrix} 1 & 0 & 1 \\ 1 & 3 & 0 \\ 2 & -3 & 0 \end{vmatrix}$  =  $\begin{vmatrix} 1 & 0 & 1 \\ 2 & -3 & 0 \end{vmatrix}$   $\hat{k}$  =  $\begin{vmatrix} -7\hat{k} \\ 3 & -3 \end{vmatrix}$   $\hat{k}$  =  $\begin{vmatrix} -7\hat{k} \\ 3 & -3 \end{vmatrix}$   $\hat{k}$  =  $\begin{vmatrix} -7\hat{k} \\ 3 & 1 \end{vmatrix}$   $\hat{k}$  =  $\begin{vmatrix} 1 & -5 \\ 3 &$ 

 $=\sqrt{\left| \left( \frac{1}{3} + \left( -\frac{3}{3} \right)^3 + \left( -\frac{7}{3} \right)^3 \right|}$ 

= 13147