$\overrightarrow{A}' = \langle -\alpha_1, \alpha_1 \rangle$ 

= 61,67

Area of a Parallelogram

$$(6,3)$$
 $(12,4)$ 
 $(11,1)$ 
 $(12,4)$ 

$$\overrightarrow{A} = 6i + j$$

$$\vec{R} = 5i + 2j$$

$$= |\overrightarrow{A}||\overrightarrow{B}|\cos\left(\frac{\cancel{1}}{2} - \theta\right)$$

$$= \left(-a_2b_1 + a_1b_2\right)$$

$$= |6| | = 12-5$$

$$= |5| | = |7|$$

$$\begin{vmatrix} 1 & \alpha \end{vmatrix} \begin{vmatrix} 1 & 2 \\ 3 & 4 \end{vmatrix}$$

$$= ad - bc$$
$$= 4 - 6$$

$$= -2$$

$$\begin{vmatrix} 1 & -2 \\ -3 & 4 \end{vmatrix}$$

$$=6-4$$

$$\frac{1}{AB} = 1+2i$$

$$= \frac{1}{2}AB \cdot AC + AC \cdot AD$$

$$= \frac{1}{2$$