189

$$
\left[\begin{array}{c}
-9 \\
1
\end{array}\right] \circlearrowleft
$$

- $-f \overrightarrow{\mathrm{x}}-r\left[\begin{array}{c}-r \\ 1\end{array}\right]=\left[\begin{array}{c}-r \\ 0\end{array}\right]-r \overrightarrow{\mathbf{j}}$ باسخ

$$
\vec{b}=\left[\begin{array}{l}
1 \\
r
\end{array}\right] \rightarrow \vec{a}=\left[\begin{array}{c}
r \\
-1
\end{array}\right]
$$

دو بردار



告

$$
\begin{aligned}
& \vec{a}=\left[\begin{array}{l}
r \\
r
\end{array}\right] \\
& \vec{b}=\left[\begin{array}{r}
r \\
r
\end{array}\right]-\left[\begin{array}{l}
r \\
r
\end{array}\right]=\left[\begin{array}{r}
\frac{1}{2} \\
1
\end{array}\right. \\
& \vec{C}=\left[\begin{array}{l}
\mu \\
r
\end{array}\right]-\mu\left[\begin{array}{l}
-\mu \\
-r
\end{array}\right] \\
& =\left[\begin{array}{c}
r \\
r
\end{array}\right]+\left[\begin{array}{l}
\gamma \\
y
\end{array}\right]=\left[\begin{array}{c}
1 \lambda \\
\Lambda
\end{array}\right]
\end{aligned}
$$

$\left[\begin{array}{c}r \\ -r\end{array}\right]+\left[\begin{array}{c}-r \\ r\end{array}\right]=\left[\begin{array}{c}-1 \\ -r\end{array}\right]$, $\mathbf{y}$ B, ,

$$
\begin{aligned}
& \text {. }
\end{aligned}
$$

$0 \rightarrow \vec{l} \rightarrow$ ج $\rightarrow$ ج
onrer$: \vec{a}+\vec{b}=\vec{c}$

$$
\bar{u} \cdot\left[\begin{array}{c}
-r \\
r
\end{array}\right]+\left[\begin{array}{l}
1 \\
\mu
\end{array}\right]=\left[\begin{array}{c}
-r \\
0
\end{array}\right]
$$

$\omega m-r_{0}=0$
मे $m=r$.
$m=\frac{r}{\Delta}=\lambda$




 بردار انتقال مثلت ABC و بردارهاى انتقال و سُكلِ انتقاليافته را رسم كانيـ.

نتطهى M , را بيابيد. .

$$
B=r A M \quad \rightarrow r M+M=r A+B
$$

$$
\Lambda_{m}=-r_{m}+4
$$






$$
\begin{aligned}
& A^{\prime}=\left[\begin{array}{l}
0 \\
r
\end{array}\right]+\left[\begin{array}{l}
\omega \\
r
\end{array}\right]=\left[\begin{array}{l}
\omega \\
r
\end{array}\right] \\
& B^{\prime}=\left[\begin{array}{l}
-r \\
-r
\end{array}\right]+\left[\begin{array}{l}
v \\
\varphi
\end{array}\right]=\left[\begin{array}{l}
\omega \\
r
\end{array}\right] \\
& C^{\prime}=\left[\begin{array}{l}
r \\
\cdot
\end{array}\right]+\left[\begin{array}{l}
r \\
r
\end{array}\right]=\left[\begin{array}{l}
\omega \\
r
\end{array}\right]
\end{aligned}
$$

هثلث ABC و بردارهاى انتقال و شُكلِ انتقال يانته را رسم كايد.


اكر سه نتطهى AB رابه وسط ضلع AC وصل مى كند رابهدست آوريد.
$\qquad$
$\qquad$
.
$\qquad$

$\qquad$
$\qquad$
. $\quad \overrightarrow{\mathrm{d}}=\left[\begin{array}{c}-\frac{r}{\Delta} \\ r \frac{1}{r}\end{array}\right], \overrightarrow{\mathbf{c}}=\left[\begin{array}{c}1 \\ -r\end{array}\right] \cdot \overrightarrow{\mathbf{b}}=\left[\begin{array}{c}0 \\ -\frac{r}{\Delta}\end{array}\right] \cdot \overrightarrow{\mathbf{a}}=\left[\begin{array}{c}-r \\ \frac{1}{r}\end{array}\right]$. $r \vec{c}+r \vec{a}-\Delta \vec{b}-\Delta \vec{d}=$
 در تساوى زير, x+y رابهدست آوريد.

$$
\left[\begin{array}{c}
r \mathbf{x}-r \\
1-x
\end{array}\right]+\left[\begin{array}{c}
y+\Delta \\
r+y
\end{array}\right]=\left[\begin{array}{c}
r-x \\
r
\end{array}\right]
$$

معادله مختصاتى زير را حل كنيد.
$-\sqrt{r}(r \sqrt{r i}+\sqrt{r j})-r \vec{x}-r\left[\begin{array}{c}1 \frac{1}{r} \\ -r \frac{r}{f}\end{array}\right]=\overrightarrow{\mathbf{x}}-r(\overrightarrow{\mathbf{i}}-r \overrightarrow{\mathbf{j}})$

$$
-f(f \quad G H \quad-\varepsilon(r) \quad f(1)
$$



$$
\left[\begin{array}{c}
0 \\
-1
\end{array}\right]_{(f} \quad\left[\begin{array}{c}
-s \\
-r
\end{array}\right]_{1}<\left[\begin{array}{c}
s \\
-1
\end{array}\right]_{1} \quad\left[\begin{array}{c}
-s \\
r
\end{array}\right]_{1}
$$

كدام گزينه بر ابر با بر دار c است؟

$$
\begin{aligned}
& r \vec{a}+r \overrightarrow{\mathbf{b}}(1 \\
& r \vec{a}+r \vec{b}(r \\
& -r \vec{a}-r \vec{b}(r \\
& -r \vec{a}-r \vec{b}(f
\end{aligned}
$$


كدام كزينه


m<1 (f
$m>1(\Gamma$
$\mathrm{m}<-1(\mathrm{r}$
$\mathrm{m}>-1(1$
位
9 (f
$9(r$
(r
$r(1$


$$
\mathbf{n}=r, \mathbf{m}=0\left(f \quad \mathbf{n}=-\frac{1}{r}, \mathbf{m}=f\left(r \quad \mathbf{n}=-\frac{f}{r}, \mathbf{m}=\cdot(r \quad \mathbf{n}=r, m=f()\right.\right.
$$

 $\left[\begin{array}{c}-r \\ r\end{array}\right]$ (f $\quad\left[\begin{array}{c}r \\ -r\end{array}\right]\left(r \quad\left[\begin{array}{c}-r \\ -r\end{array}\right]\left(r \quad\left[\begin{array}{l}r \\ r\end{array}\right]()\right.\right.$ $-f(f \quad f(r) \quad-1(t)$



D اكر سه نقطهیى كدام است؟

$$
\left[\begin{array}{c}
-\lambda \\
-1
\end{array}\right]^{\prime} \quad\left[\begin{array}{c}
-\gamma \\
0
\end{array}\right]\left(r \quad [ \begin{array} { l } 
{ - 1 } \\
{ - \lambda }
\end{array} ] \left(r \quad\left[\begin{array}{c}
-\gamma \\
10
\end{array}\right]()\right.\right.
$$



$$
\begin{aligned}
& \text { 屋 } \\
& {\left[\begin{array}{l}
0 \\
0
\end{array}\right] \text { (f } \quad\left[\begin{array}{l}
r \\
0
\end{array}\right]\left(r \quad [ \begin{array} { l } 
{ 0 } \\
{ f }
\end{array} ] \left(r \quad\left[\begin{array}{l}
a \\
\wedge
\end{array}\right]()\right.\right.} \\
& \text { در مelادلa }
\end{aligned}
$$



$$
\frac{1}{r} \overrightarrow{\mathbf{a}}+\frac{1}{r}(r \overrightarrow{\mathbf{i}}-r \overrightarrow{\mathrm{j}})=\frac{\Delta}{\varphi} \overrightarrow{\mathbf{a}}+\cdots / v \Delta\left[\begin{array}{c}
\frac{r}{r} \\
-r \frac{r}{r}
\end{array}\right]
$$

