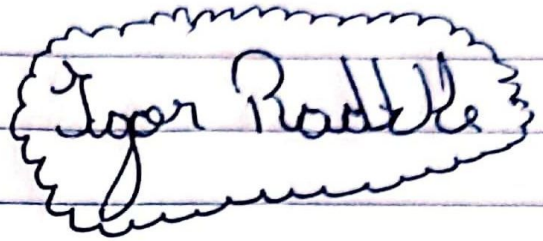
UFFS - 2º Semestre

Ciência da Computação



Primeira Atividade Gplometria.

Atividades 1:

1- a) Se $\vec{u} = \vec{v}$, então $|\vec{u}| = |\vec{v}|$. Verdadeiro

Pois tem o mesmo módulo, direção e sentido

b) Se $|\vec{u}| = |\vec{v}|$, então $\vec{u} = \vec{v}$. Falso

Somente mesmo módulo

c) Se $\vec{u} \parallel \vec{v}$, então $\vec{u} \neq \vec{v}$ Falso

Módulo e sentido podem ser diferentes

d) Se $\vec{w} = \vec{u} + \vec{v}$, então $|\vec{w}| = |\vec{u}| + |\vec{v}|$ Falso

2- a) $\overrightarrow{AD} + \overrightarrow{AB}$

$\overline{AD} + \overline{AB} = \overline{AD} + \overline{DC} = \overline{AC}$

b) $\overrightarrow{BA} + \overrightarrow{DA}$

$\overline{BA} + \overline{DA} = \overline{CD} + \overline{DA} = \overline{CA}$

c) $\overrightarrow{AC} - \overrightarrow{BC}$

$\overline{AC} - \overline{BC} = \overline{AC} + \overline{CB} = \overline{AB}$

d) $\overrightarrow{AN} + \overrightarrow{BC} =$

$\overline{AN} + \overline{NM} = \overline{AM}$

e) $\overrightarrow{MD} + \overrightarrow{MB}$

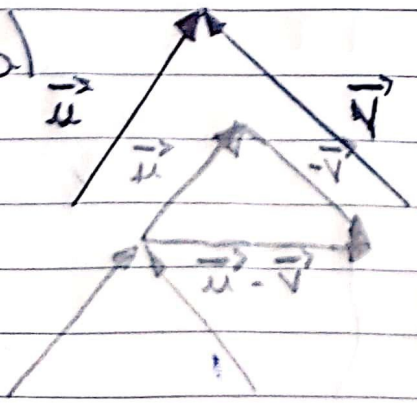
$\overline{MD} + \overline{MB} = \overline{MD} + \overline{DN} = \overline{MN}$

f) $\overrightarrow{BM} - \frac{1}{2}\overrightarrow{DC}$

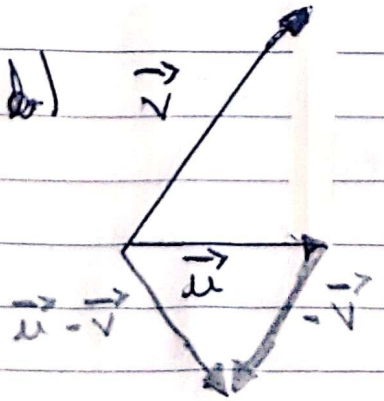
$\overline{BM} + \overline{CM} = \overline{BM} + \overline{MD}$

$\overline{BM} - \frac{1}{2}\overline{DC} = \overline{BD}$

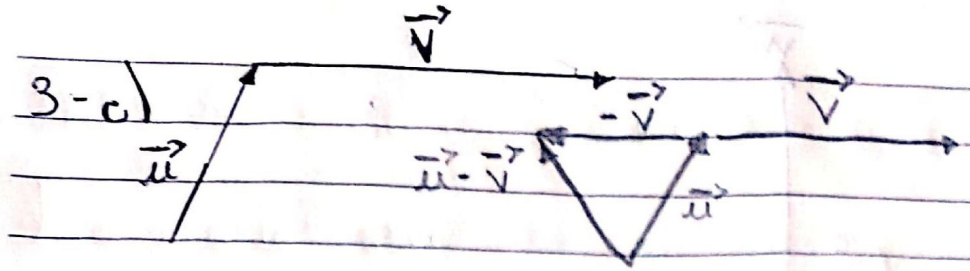
3- a)



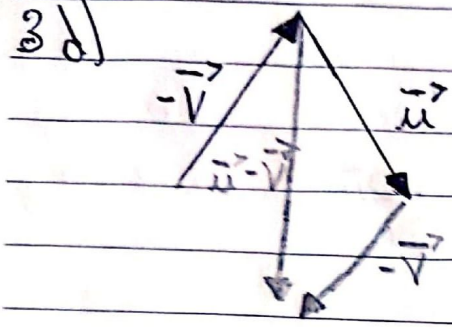
b)



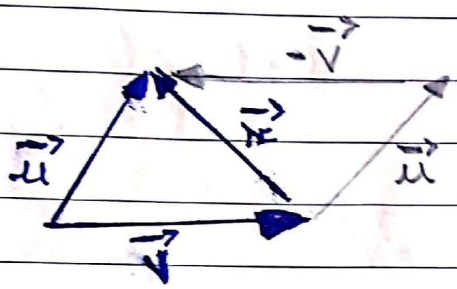
3-c)



3 d)

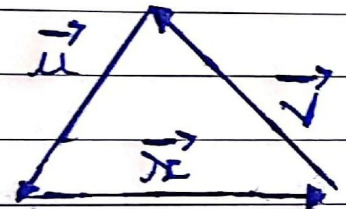


4- a)

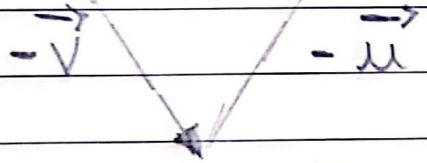


$\vec{x} = \vec{u} - \vec{v}$

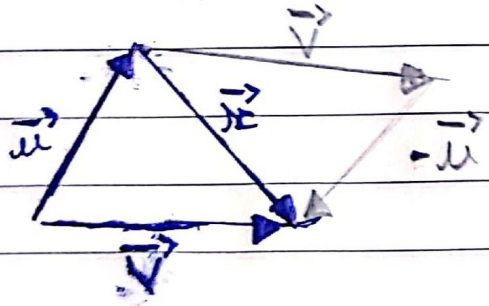
b)



$\vec{x} = -\vec{u} - \vec{v}$

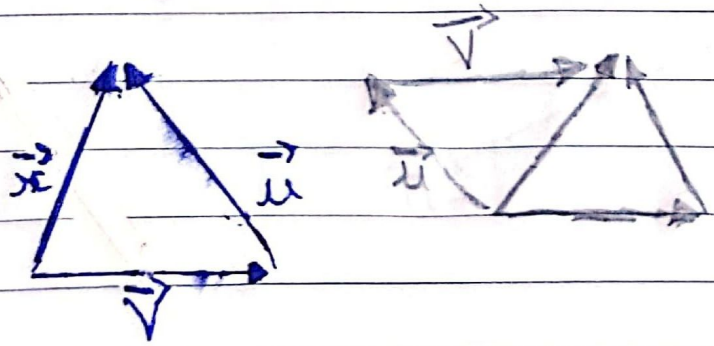


c)



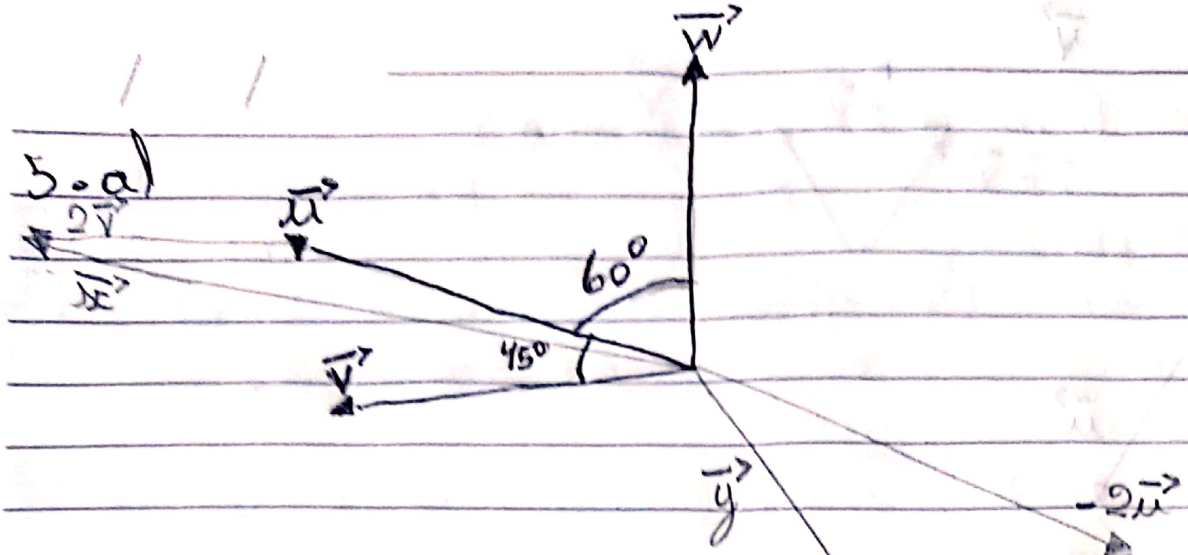
$x = \vec{v} - \vec{u}$

d)

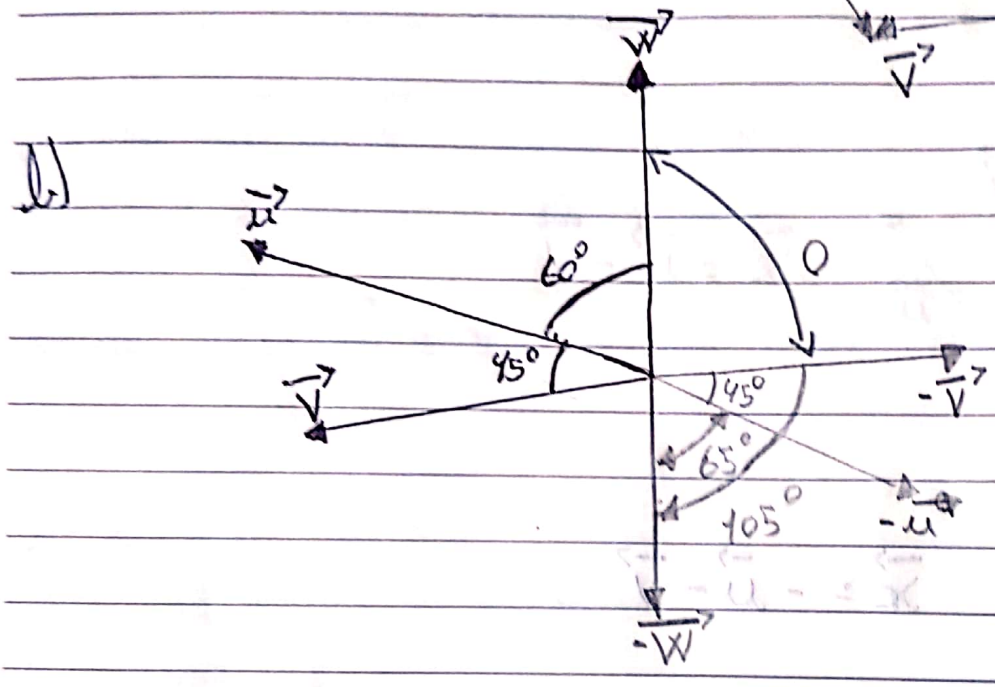


$\vec{x} = \vec{u} + \vec{v}$

5. a)



b)



$\theta + 105° = 180°$

$\theta = 180° - 105°$

$\theta = 75°$

c)