

Suma_de_Vectores

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1 Suma de Vectores

1.0.1 Trabajo realizado por: Jessica Naomi Millan Sánchez

1.0.2 Graficación Computacional

1.0.3 Profesora: Hazem Álvarez Rodríguez

1.0.4 Clase del 23 de septiembre de 2024

Graficar los vectores vistos en clase:

$A = (2,4)$

$B = (-6,-2)$

$C = (2, -7)$

Encontrar el vector resultante de la suma de los 3 vectores A, B y C

```
[3]: import numpy as np
import matplotlib.pyplot as plt
```

```
[ ]: # x, y, incremento, abcisa, longitud, ancho, color
plt.arrow(0,0,2,4,head_length=0.5, head_width=0.5, color=(26/255,184/255,243/
↪255), width=0.05)
plt.arrow(2,4,-6,-2,head_length=0.5, head_width=0.5, color=(23/255,25/255,136/
↪255), width=0.05)
plt.arrow(-4,2,2,-7,head_length=0.5, head_width=0.5, color=(101/255,15/255,193/
↪255), width=0.05)
plt.arrow(-2,-5,2,5,head_length=0.5, head_width=0.5, color=(100/255,100/255,100/
↪255), width=0.05)

plt.plot([], [], color=(26/255, 184/255, 243/255), label='A (2,4)')
plt.plot([], [], color=(23/255, 25/255, 136/255), label='B (-6,-2)')
plt.plot([], [], color=(101/255,15/255,193/255), label='C (2,-7)')
plt.plot([], [], color=(100/255,100/255,100/255), label='A+B+C(-2,-5)')

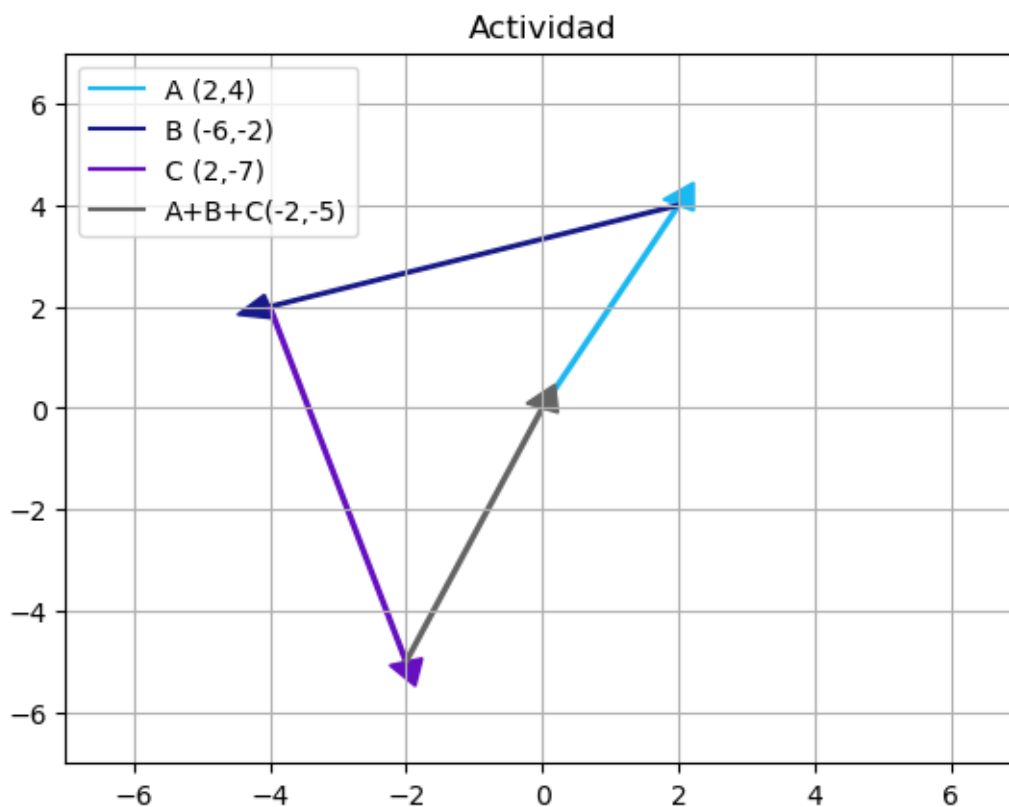
plt.legend(loc='upper left')
```

```
[33]: x1=-7
x2=7
y1=-7
y2=7

# Crear el eje
plt.axis([x1,x2,y1,y2])

# Habilitar el grid
plt.grid(True)
plt.axis('on')
plt.title('Actividad')
```

[33]: <matplotlib.legend.Legend at 0x7222187e45f0>



```
[42]: x1=-7
x2=7
y1=-7
y2=7
```

```

# Crear el eje
plt.axis([x1,x2,y1,y2])

# Habilitar el grid
plt.grid(True)
plt.axis('on')
plt.title('Actividad')

# x, y, incremento, abcisa, longitud, ancho, color
plt.arrow(0,0,2,4,head_length=0.5, head_width=0.5, color=(26/255,184/255,243/
↪255), width=0.05)
plt.arrow(2,4,-6,-2,head_length=0.5, head_width=0.5, color=(23/255,25/255,136/
↪255), width=0.05)
plt.arrow(-4,2,2,-7,head_length=0.5, head_width=0.5, color=(101/255,15/255,193/
↪255), width=0.05)
plt.arrow(0,0,-2,-5,head_length=0.5, head_width=0.5, color=(100/255,100/255,100/
↪255), width=0.05)

plt.text(1.5,2,'A = (2,4)', fontweight="bold")
plt.text(-1.5,4,'B = (-6,-2)', fontweight="bold")
plt.text(-5.5,-1,'C = (2,-7)', fontweight="bold")
plt.text(0,-2,'A+B+C = (-2,-5)', fontweight="bold")

```

[42]: Text(0, -2, 'A+B+C = (-2,-5)')

Actividad

