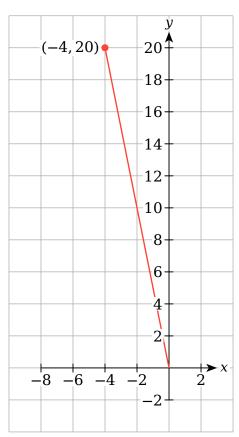
1. Vectores

Vectores en dos y tres dimensiones

- 2. Dibujar cada uno de los múltiplos escalares de $\vec{v} = [-1, 5]$
 - a) 4ν
 - b) $-\frac{1}{2}$
 - c) 0v
 - d) -6v
- a) 4v

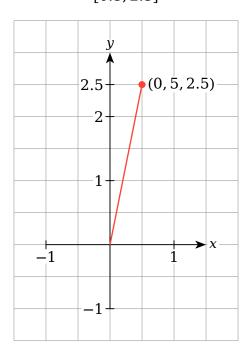
$$4\vec{v} = 4[-1, 5]$$

[-4, 20]



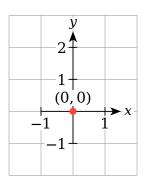
b)
$$-\frac{1}{2}v$$

$$-\frac{1}{2}\vec{v} = -\frac{1}{2}[-1, 5]$$
$$\left[\frac{1}{2}, -\frac{5}{2}\right]$$
$$[0.5, 2.5]$$



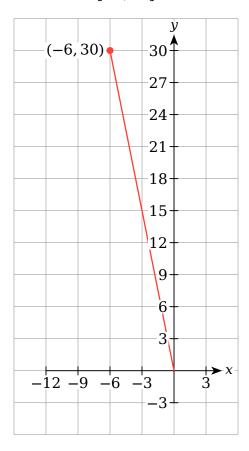
c) 0*v*

$$0\vec{v} = 0[-1, 5]$$
$$[0, 0]$$



$$-6\vec{v} = -6[-1, 5]$$

[-6, 30]



4. Hallar el vector $\vec{v}=5\vec{u}-3\vec{w}$ donde $\vec{u}=[2,-1]$ y $\vec{w}=[1,2]$. Ilustrar geométricamente la operación vectorial

$$5\vec{u} = 5[2, -1] = [10, -5]$$
$$3\vec{w} = 3[1, 2] = [3, 6]$$
$$\vec{v} = 5\vec{u} - 3\vec{w} = [10, -5] - [3, 6] = [7, -11]$$

