

$$\vec{v} = \langle 4, 5 \rangle$$

$$\vec{w} = \langle 3, 7 \rangle$$

Find the sum of the two vectors:

$$\vec{v} + \vec{w} = \langle 4, 5 \rangle + \langle 3, 7 \rangle = \langle 4+3, 5+7 \rangle = \langle 7, 12 \rangle$$

Generalize the concept above:

$$\vec{v} = \langle a, b \rangle$$

$$\vec{w} = \langle c, d \rangle$$

$$\vec{v} + \vec{w} = \langle a, b \rangle + \langle c, d \rangle = \langle a+c, b+d \rangle$$

