

8.1: Accurately sketch a vector,
or combination of vectors

$$\text{ie: } 3\vec{v} - 2\vec{w} \quad (\text{given } \vec{v} \text{ \& } \vec{w})$$

* add, subtract, scalar multiply

8.2 * find horz & vert. components

* write vectors in component form
linear combination from

* find a unit vector

init & term pts.
 $\langle (x_2 - x_1), (y_2 - y_1) \rangle$

$$\vec{u} = \frac{1}{|\vec{v}|} \langle a, b \rangle \quad \text{giv: } \vec{v} = \langle a, b \rangle$$

* magnitude & direction

$$|\vec{r}| = \sqrt{a^2 + b^2} \quad \theta = \tan^{-1} \frac{b}{a}$$

* decipher word problems.

① drawing vectors

② write out vectors
component or Linear Combo.

③ Add (usually) resultant
vector

④ magnitude, direction