

# VECT-O-RAMA

Consider the Vectors Listed Below:

$$\mathbf{A}=25\text{m } [39^\circ \text{ below } +x]$$

$$\mathbf{B}=36\text{m/s } [57^\circ \text{ below } -x]$$

$$\mathbf{C}=98\text{m } @ 62^\circ \text{ below } -x$$

$$\mathbf{D}= 44\text{m/s}^2 [ 78^\circ \text{ N of E } ]$$

$$\mathbf{E}=83\text{m/s } @ 11^\circ \text{ W of S}$$

$$\mathbf{F}=12\text{m } \mathbf{x} + 5.0\text{m } \mathbf{y}$$

$$\mathbf{G}_x=0.0998\text{m/s} \quad \mathbf{G}_y=0.123\text{m/s}$$

$$\mathbf{H}= -4.5\text{m } \mathbf{x} + 7.4\text{m } \mathbf{y}$$

$$\mathbf{I}=126\text{m/s}^2 \mathbf{y} + (-99.5\text{m/s}^2) \mathbf{x}$$

$$\mathbf{J}_y=-8.50\text{m } \mathbf{y} \quad \mathbf{J}_x=-165\text{m } \mathbf{x}$$

1. Sketch each vector above.
2. Find the x and y components for vectors **A** through **E**.
3. Find vectors **F** through **J** in standard form.
4. Find a. **A+C**      b. **C+A**      c. **B+E**      d. **D+E**
5. Find a. **A-C**      b. **C-A**      c. **B-E**
6. Find a. **2D**      b. **-4E**

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