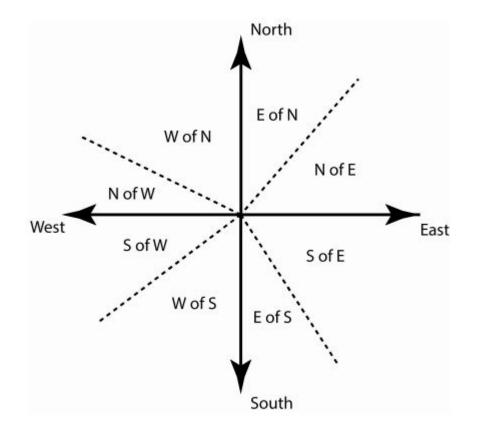
Guided Notes - Vectors

Representing Vectors

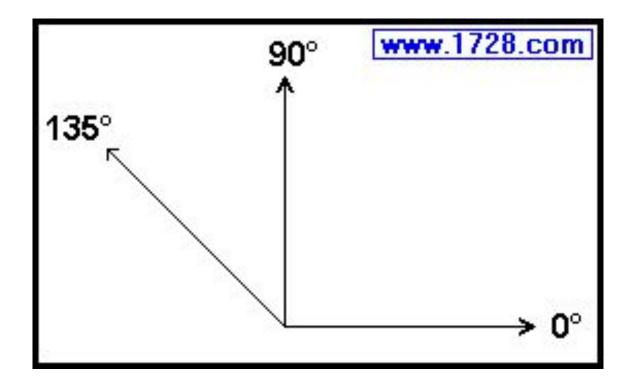
Vectors on paper are simply arrows that show:

- DIRECTION represented by the direction the vector points
- MAGNITUDE represented by the length of the vector
 - Examples of vectors: displacement, velocity, acceleration, force, momentum, etc.

Angular Systems (Compass Point System)



Angular Systems (Reference Vector Systems)



Things we can DO with vectors

• Add/Subtract with a vector to produce a vector

Multiply/Divide by a vector to produce either a vector or scalar

Vector "Pieces"

- Vectors can be broken into components
- X-Y system of components
 - X horizontal
 - Y vertical
 - Example
 - V = 5.0 m/s at 30 degrees

- Vectors can be added together by using their COMPONENTS
- Results are used to find:
 - Resultant magnitude
 - Resultant direction