## Introduction to Vectors

When drawing a vector ALWAYS do the following:

* + Label your vector (symbol, magnitude, and direction)
  + Clearly define your scale (make sure it’s appropriately sized)
  + Make clear, point arrows to indicate direction
  + When adding vectors, draw them tip to tail
  + Your resultant vector starts at the tail of the first vector to the tip of the last vector

*For the following problems, add the following vectors to find the resultant. Use the tip-to-tail method. Measure out the vectors and the angles accurately. Before going on to the next problem, check that you have done everything on the vector checklist above.*

1. 75 “units” West 25 “units” @ 45 degrees S of W
2. 250. “units” East 200. “units” @ 65 degrees S of E
3. 85.0 “units” West 125 “units” @ 30 degrees N of W

*For the following problems, draw a scale drawing and use the component method to calculate the resultant’s magnitude and direction.*

1. 20. “units” West 65 “units” North
2. 10 “units” North 45 “units” West
3. 50. “units” South 50. “units” West

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