

Graphical Vector Addition

Name: _____ Date: _____

Using a ruler, protractor, and the given vectors to answer the following problems.

A = 5.0 @ 30 degrees **B** = 6.0 @ 90 degrees **C** = 4.0 @ 210 degrees

D = 8.0 @ - 45 degrees **E** = 4.0 @ 180 degrees **F** = 5.0 @ 135 degrees

Work no more than three problems per sheet. On each problem choose a scale for your drawing.

On each drawing give you scale so I can check your work. For instance 2 centimeters = 1 unit.

Choose a scale that will make your drawings large enough to obtain answers with 5% precision.

If the exact answer is 4.0 @ 30 degrees then 4.2 @ 31 degrees will be counted correct, but 5.0 @ 35 degrees will be counted wrong.

1. Find **A + B**

2. Find **E+A+C+B**

3. Find **3A**

4. Find **2B - F**

5. Find **D + F + B + E**

6. Find **D - 2A + C**







