Vector Addition Practice:

Find the following vector sums. For each try to show the following work:

* A neat reasonably to scale sketch of the addition
* The breaking of each vector into components, with proper signs
* The addition of vector components
* The resolving of the final vector into standard form

1. **A** = 220km [27o above –x] ; **B** = 740km [39o below –x] ; Find **C** = **A** + **B**

**Sketch:**

A **A**x = -220km cos(27o) =

B **A**y =

C **B**x =

**B**y =

*Continued on Back…*

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B **A**y =

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*Continued on Back…*

**C**x = **A**x +**B**x =

**C**y = **A**y + **B**y =

**C** = \_\_\_\_\_ km [ \_\_\_o \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ]

2. **W** = 0.055T [29o below +x] ; **P** = 0.113T [34o above –x] ; Find **Z** = **W** + **P**

3. **F1** = 16N [81o above +x] ; **F2** = 27N [23o below –x] ; Find **F3** = **F1** + **F2**

4. **O** = 19m/s [58o North of West] ; **D** = 62m/s [36o South of West] ; Find **U** = **O** + **D**

5. **R** = 72cm **y** ; **U** = 43cm [17o below –x] ; **P** = - 57cm **x** ; Find **B** = **U** + **R** + **P**

**C**x = **A**x +**B**x =

**C**y = **A**y + **B**y =

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