

Name _____

Vector Components

Find the vector components of the following problems: (Show all of your work)

1.) 55.0 Newtons at 25°

2.) 20 m / s at 70°

3.) 4.0 m at 90°

4.) 17.0 Newtons at 135°

5.) 15 m / s at 160°

6.) 125 Newtons at 220°

7.) 3.5 cm at 330°

8.) 9.8 m / s / s at 270°

9.) 40 m / s at 78°

10.) 3500 N at 245°

Bonus: If you know how to add two vectors that are in a straight line like 30 N at 0° and 50 N at 0° (= 80 N at 0°) and knowing how to compute the vector components of any vector. Show me a way to add the following two vectors. Also give the answer to the problem. (do on back)

45 N at 30°

155 N at 70°