Name _____ **B** Date _____

Honors Physics Vectors/Projectiles WS #5H

Period _____ Mrs. Nadworny

(12 pts)

Vector Components

Directions – Read textbook pages 88 – 96. Solve the following problem using the graphical (scale) method and mathematical method we've learned. Show all of your work in the space provided.

1. Into how many possible components can a single vector be resolved?

   A) one B) two C) three D) unlimited

2. Which combination of three concurrent vectors could not produce a resultant of 0 N?

   A) 4 N, 6 N, 9 N B) 3 N, 3 N, 3 N C) 2 N, 1 N, 5 N D) 7 N, 3 N, 4 N

3. A ball is kicked with an initial velocity of 24.5 m/s at an angle of 35.0^0. Determine the vertical and horizontal components of the velocity.

Scale Method	Mathematical Method
Redraw the vector. Picture is not to scale 	

Answers in size order: 14.1, 20.1