Name <u>Answer Key</u> Honors Physics Period _____



Date _

Vectors/Projectiles WS #6H Mrs. Nadworny

horizon

OR

26 N at 340.°

Various Vector Problems

(16 pts)

Directions - Solve the following problems using the method learned in class. Show ALL work neatly using proper units, significant figures and the GUESS method where appropriate.

1. Two ropes pull on a log. The first rope pulls with a force of 14.0 newtons at 16.0°. The second rope pulls with a force of 16.5 newtons at 309°. What is the resultant force?



- 2. Use the diagram to the right to answer the questions. $$V_{AG}$= 20. m/s$ V_{BG}= 28 m/s$$
- (3 pts) a. What is the relative velocity of car B with respect to car A? Remember to include angle and direction.



(3 pts)

b. What is the relative velocity of car A with respect to car B? Remember to include angle and direction.

