

Name \_\_\_\_\_  
 Honors Physics \_\_\_\_\_  
 Period \_\_\_\_\_

Date \_\_\_\_\_  
 Vectors/Projectiles WS #1H  
 Mrs. Nadworny

The work in GREEN is required.  
 The work in PURPLE gives the ranges.  
**Drawing Vectors**

(20 pts)

**Directions** - Read textbook page 84. Measure the magnitude and direction of the following vectors using the given scales. Place your answers in the provided spaces.

1. 1 cm = 450 km

d = 2360 km at 31.5° S of E  
 (29.5° - 33.5°)

2. 1 cm = 5 m/s

v = 35 m/s at 159°  
 OR 21.0° above left horizon

**Directions** - Draw the following vectors using the appropriate method learned in class.

3. A robot travels 60. km at 35° South of West

Scale: 1 cm = 15 km (4 cm line)

Check for:

- scale
- correct length
- correct angle
- Arrowhead
- Label

4. A box is dragged to the left with a force of 48 N at an angle of 20.° above the horizon.

Scale: 1 cm = 8 N (6 cm line)

Check for:

- scale
- correct length
- correct angle
- arrowhead
- Label