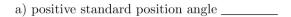
Name:

- 1. What is the objective of this lab?
- 2. A vector is given in terms of its x-component  $D_x = -3.4$  m and its y-component  $D_y = +2.1$  m.
  - a) What is this vector in polar form?
  - b) Which quadrant is this vector in?
- 3. A vector is given in terms of its magnitude, v = 8.7 m/s and its direction,  $256^{\circ}$  standard position.
  - a) What is this vector in component form?
  - b) Which quadrant is this vector in?

Give the angle shown in the diagram as a:



- b) negative standard position angle \_\_\_\_\_
- c)  $\underline{\hspace{1cm}}$  ° east of south
- d)  $\_$  ° south of east

