

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° 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:

a) positive standard position angle _____

b) negative standard position angle _____

c) _____ $^\circ$ east of south

d) _____ $^\circ$ south of east

