**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hr: \_\_\_\_\_\_\_**

**Vector Practice**

Find the component form, magnitude and direction for $\rightharpoonaccent{MN}$.

**1. M(8, 1) and N(2,5)**

 Component Form:

 Magnitude:

 Direction:

**2. M(-1 ,7) and N(6, -8)**

Component Form:

 Magnitude:

 Direction:

**3. Find the magnitude and the direction of** $\rightharpoonaccent{v}=<12,-9>$

**Magnitude: Direction:**

**4.** Graph ∆ABC with vertices A(2,-1), B(-7,-2) and C(-2,8) under the translation $\rightharpoonaccent{v}=<-1,-4>$. ***This means:***

**5.** Graph ∆XYZ with vertices X(2,5), Y(1,1) and Z(5,1) under the translation $\rightharpoonaccent{v}=<2,3>$. ***This means:***