

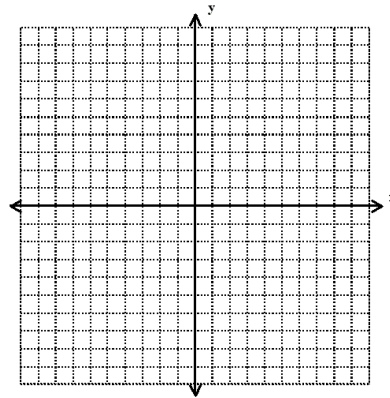
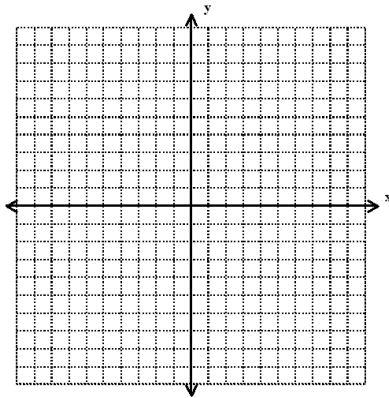
Name: \_\_\_\_\_

### Bellwork #1

Write the vector between the points in component form. Find the magnitude of the vector. Then draw the vector in a different location on the coordinate grid.

1)  $(3, -8)$  and  $(-2, 6)$

2)  $(5, 0)$  and  $(-2, -6)$



Use the given information to find the following resultant vectors algebraically.

$\vec{v} = \langle -1, 2 \rangle$      $\vec{u} = \langle 6, -5 \rangle$      $R = \langle 2, -7 \rangle$      $S = \langle -3, 1 \rangle$      $T = \langle -3, 3 \rangle$

3)  $\vec{u} + \vec{v}$

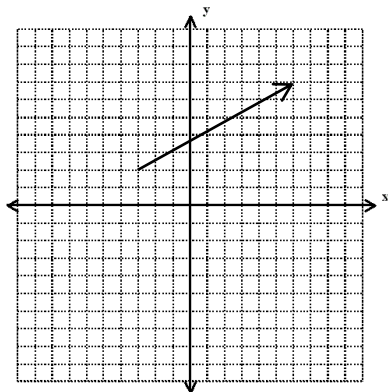
4)  $\vec{u} - \vec{v}$

5)  $\vec{u} + \overrightarrow{RS}$

6)  $\overrightarrow{RS} - \overrightarrow{ST}$

Find the direction and magnitude for each of the following.

7)



8)

