

Introduction to Vectors

Name:

Date:

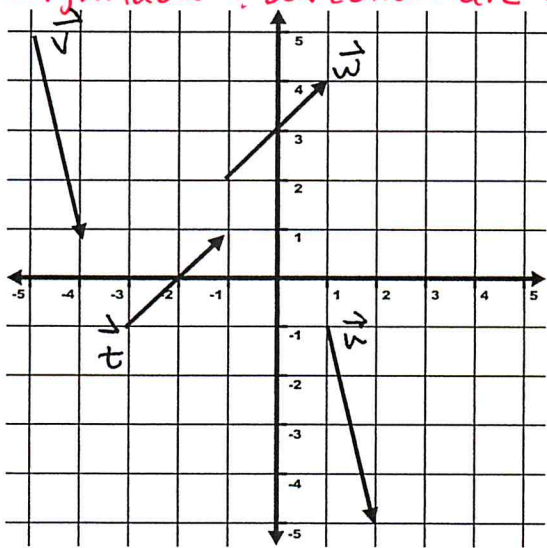
Period:

**Equivalent Vectors:**

Which vectors are equivalent? Why?

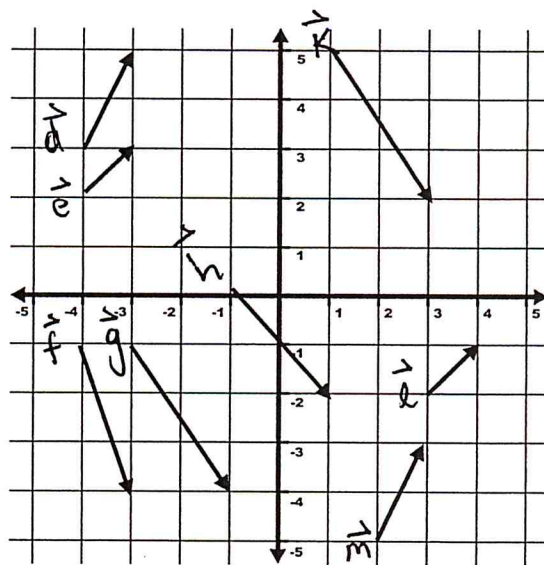
$\vec{u} \cong \vec{v}$      $\vec{t} \cong \vec{w}$

magnitude & direction are =



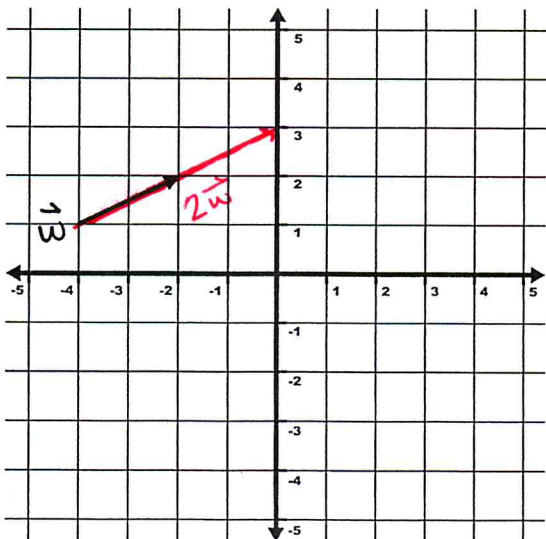
Find all pairs of equivalent vectors.

$\vec{d} \cong \vec{m}$      $\vec{e} \cong \vec{l}$      $\vec{k} \cong \vec{g}$



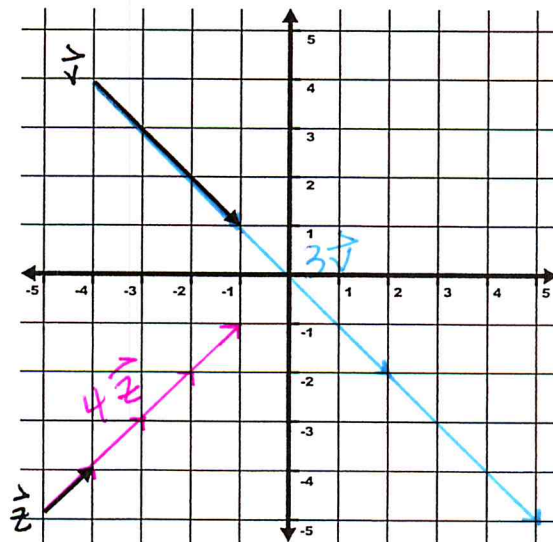
**Scalar Vectors:**

Find  $2\vec{w}$



Find  $3\vec{v}$

Find  $4\vec{z}$



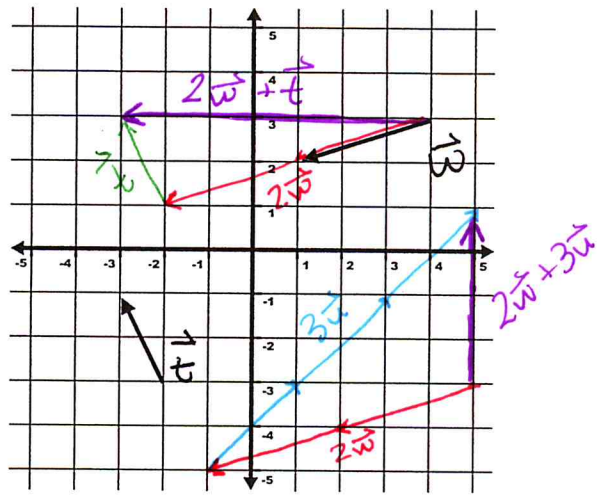
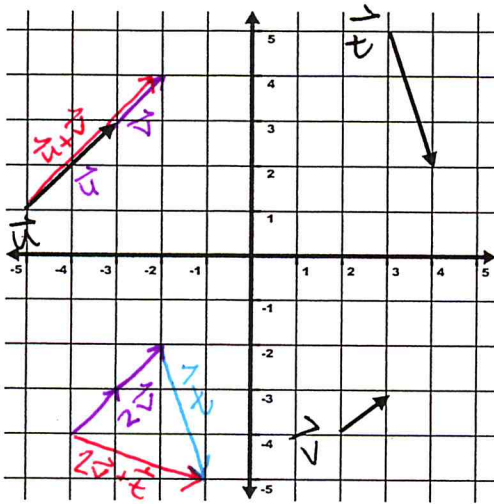
**Adding Vectors:**

Find  $\vec{u} + \vec{v}$

Find  $2\vec{v} + \vec{t}$

Find  $2\vec{w} + \vec{t}$

Find  $2\vec{w} + 3\vec{u}$



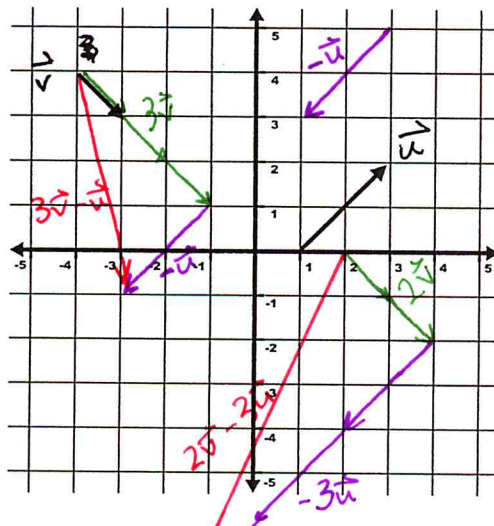
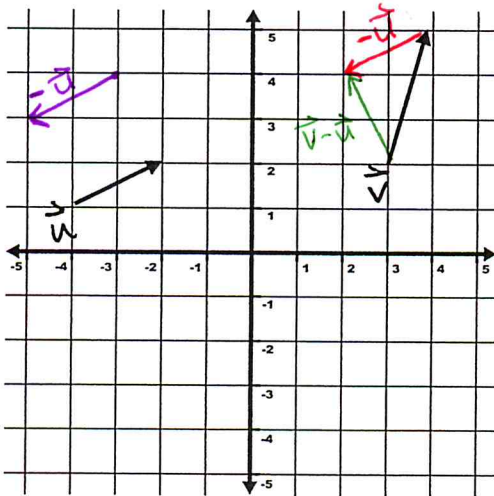
**Subtracting Vectors:**

What would  $-\vec{u}$  look like?

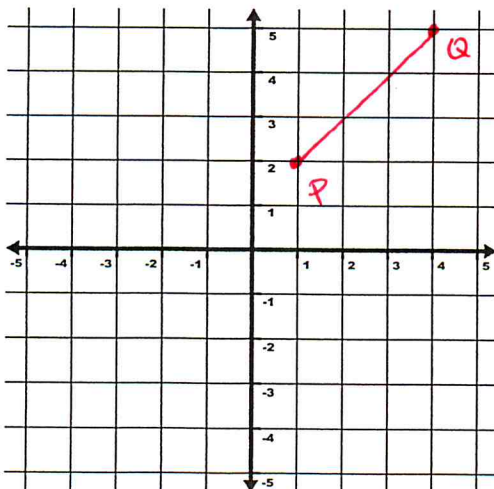
Find  $\vec{v} - \vec{u}$

Find  $3\vec{v} - \vec{u}$

Find  $2\vec{v} - 3\vec{u}$



**Graph P(1, 2) and Q(4, 5)**



**Move  $\overline{PQ}$**

