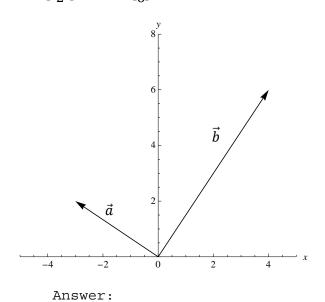
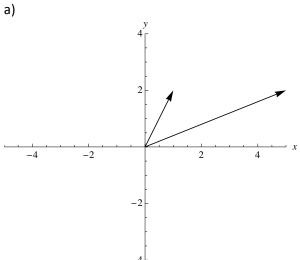
Homework #1

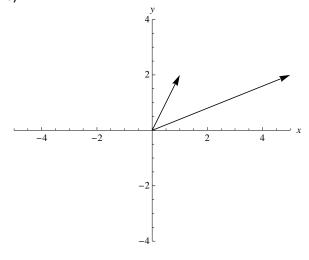
Problem 1. Add the vectors $\vec{a} = \begin{bmatrix} -3 \\ 2 \end{bmatrix}$ and $\vec{b} = \begin{bmatrix} 4 \\ 6 \end{bmatrix}$



Problem 2. a) Subtract vector $\vec{k} = \begin{bmatrix} 5 \\ 2 \end{bmatrix}$ from vector $\vec{l} = \begin{bmatrix} 1 \\ 2 \end{bmatrix}$ b) Subtract vector $\vec{l} = \begin{bmatrix} 1 \\ 2 \end{bmatrix}$ from vector $\vec{k} = \begin{bmatrix} 5 \\ 2 \end{bmatrix}$



b)



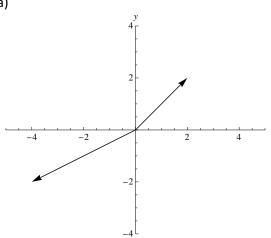
Answer:

Answer:

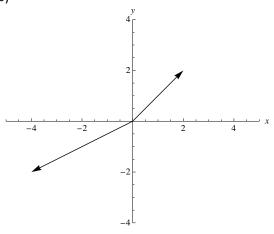
Problem 3. a) Multiply the vector $\vec{q}=\begin{bmatrix}2\\2\end{bmatrix}$ by 2 and add it to vector $\vec{w}=\begin{bmatrix}-4\\-2\end{bmatrix}$

- b) Multiply vector \vec{w} by 1.5 and add it to \vec{q} .
- c) Multiply vector \vec{w} by -2 and subtract the vector \vec{q} .

a)



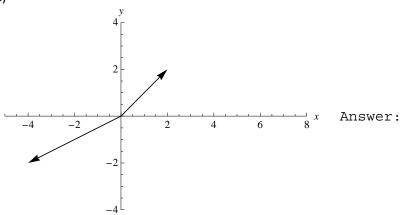
b)



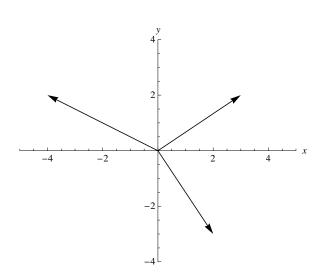
Answer:

Answer:

c)



Problem 4. Add all the vectors:



Answer: