1. Vectors $\vec{u}$, $\vec{v}$, and $\vec{w}$ are shown. Draw
   (a) $2.5\vec{u}$
   (b) $-\vec{v}$
   (c) $-\frac{1}{2}\vec{w}$
   (d) $\vec{u}+\vec{v}$
   (e) $\vec{w}-\vec{u}$
   (f) $2.5\vec{u}-\frac{1}{2}\vec{w}$
   (g) $\vec{u}+\vec{v}+\vec{w}$
2. Compute the length of $\vec{u}$. (Assume the dots are spaced 1 apart on the grid above)
3. Compute $||\vec{w}-\vec{u}||$
4. Find the angle between $\vec{u}$ and $\vec{w}$.
5. Find three unit vectors that add to the zero vector.
6. Find the equation of the plane through $(1,0,3)$ with normal vector $2\vec{i}-\vec{j}+4\vec{k}$.