

Directions: Use the following vectors to simplify the following expressions.

$$
\begin{array}{c|c}
\boldsymbol{u}=\langle 2,8\rangle, \boldsymbol{v}=<-4,-9> \\
\hline 4) 3 \mathbf{u}+\mathbf{6 v}
\end{array}
$$

Directions: Add the vectors graphically.


Directions: Find the components of the vector given the magnitude and direction.
7) $\|\mathbf{w}\|=35, \theta=85^{\circ}$
8) $\|\mathbf{w}\|=12, \theta=170^{\circ}$
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1)

3) $<-18,-58>$
4) $<-18,-12>$
5)

7) $\langle 3.05,34.87\rangle$
8) $\langle-11.82,2.08\rangle$
2)

6)


