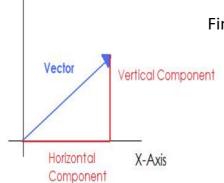


Adding & Subtracting Vectors When two vectors are added or subtracted to produce a third vector this vector is called the resultant. The resultant vector is marked with a double arrowhead. **Triangle law** To add two vectors means apply the first vector then apply the second vector. $\overrightarrow{AB} + \overrightarrow{BC} = \overrightarrow{AC}$ or $\mathbf{a} + \mathbf{b} = \mathbf{c}$ This is known as the triangle law. Parallelogram law The parallelogram law shows that going from A to C via B is the same as going from A to C via D. In other words: $\overrightarrow{AB} + \overrightarrow{BC} = \overrightarrow{AC}$ is the same as $\overrightarrow{AD} + \overrightarrow{DC} = \overrightarrow{AC}$ or $\mathbf{a} + \mathbf{b} = \mathbf{b} + \mathbf{a} = \mathbf{c}$ Subtracting a vector is the same as adding its inverse: $\mathbf{a} - \mathbf{b}$ is the same as $\mathbf{a} + (-\mathbf{b})$.

Nov 4-10:17 AM

Y-Axis



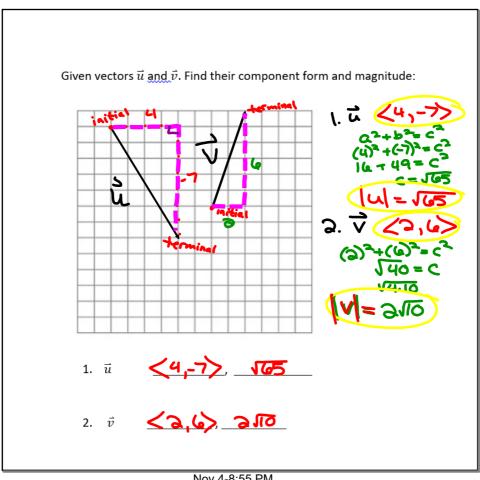


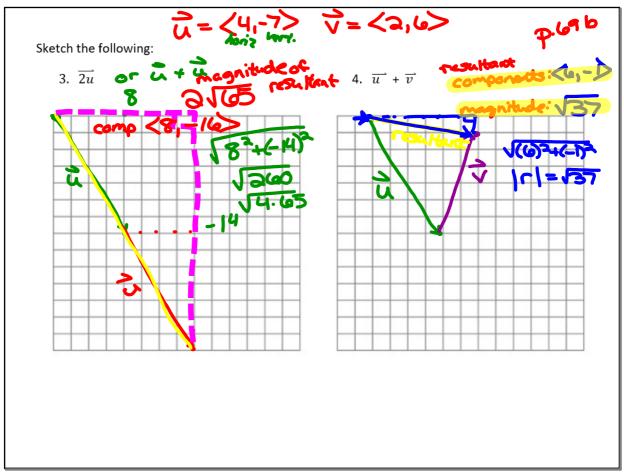
⟨ horizontal, vertical⟩

Find the component form of vector u, v, & w above.

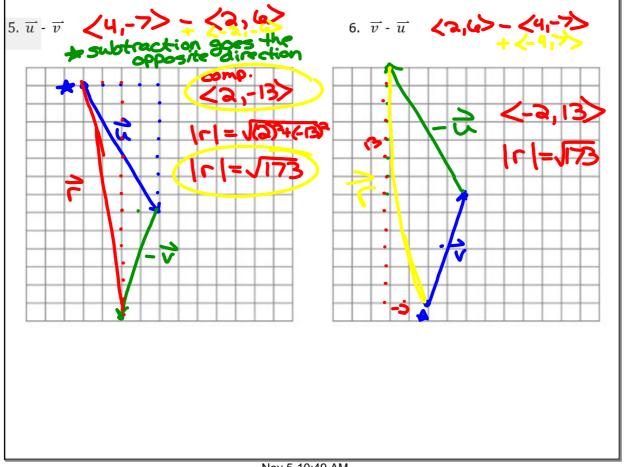
- \vec{u} 1.
- 2. \vec{v}
- 3.

Nov 2-9:44 AM





Nov 5-10:11 AM



Nov 5-10:49 AM