

Vector Addition/Subtraction Practice

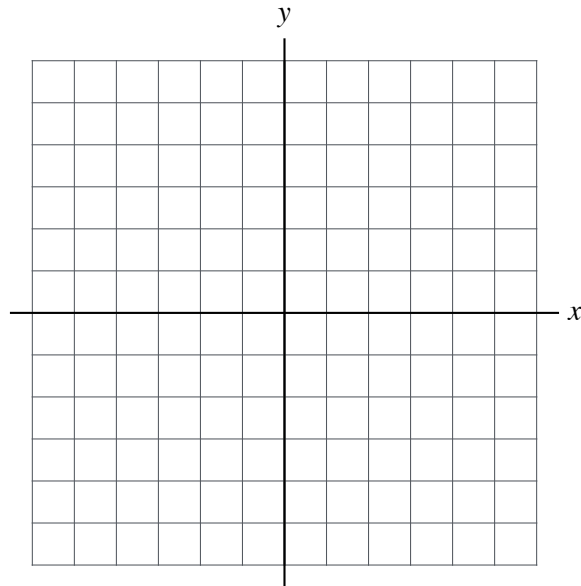
Recall: when adding or subtracting vectors

- graphically, use the “tip-to-tail” method or the “parallelogram” method;
- analytically, treat each component separately (“x with x, y with y”).

Example: Position Vectors

Consider two (position) vectors $\mathbf{A} = (4 \text{ m}, 3 \text{ m})$ and $\mathbf{B} = (7 \text{ m}, -1 \text{ m})$. The magnitude of $\mathbf{A} - \mathbf{B}$ is closest to...

Solve **graphically**:



Solve **analytically**: