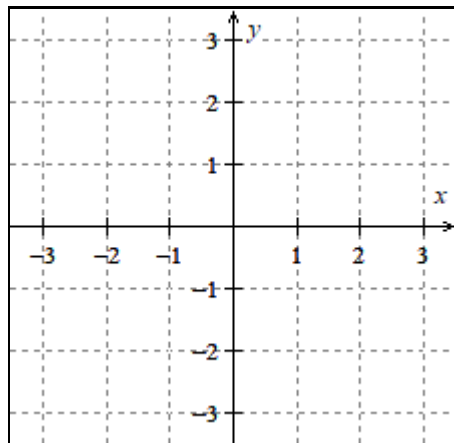
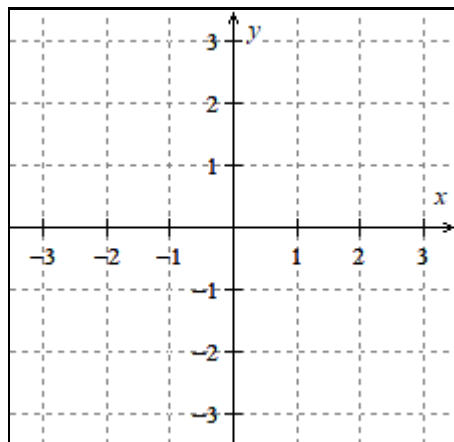


Class Discussion: Vectors

EXAMPLE: Represent the vector $\vec{v} = \langle -3, 2 \rangle$ using unit vectors and use this representation to review the definition of scalar multiplication and vector addition.



EXAMPLE: Find the magnitude and direction (in degrees with respect to the positive x -axis) of the vector $\vec{v} = \langle -3, 2 \rangle$.



EXAMPLE: If $\vec{v} = \langle 5, -2 \rangle$ and $\vec{w} = \langle -7, 3 \rangle$, find $\vec{v} \cdot \vec{w}$.

EXAMPLE: Use the dot product to find the angle between the vectors $\vec{r} = \langle -3, 6 \rangle$ and $\vec{s} = \langle -4, -5 \rangle$.

