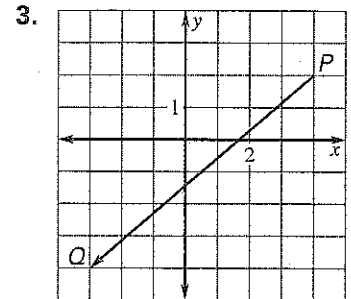
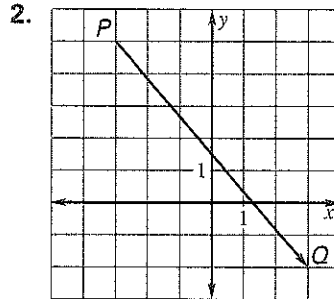
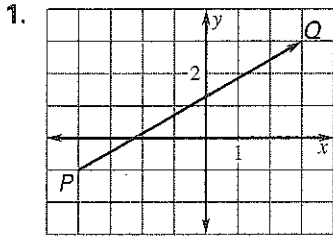


**Practice C**

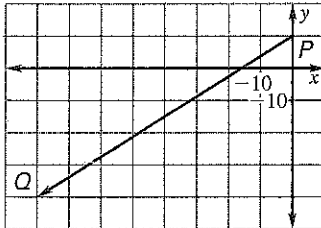
For use with pages 573–580

Write the vector in component form. Find the magnitude of the vector. Round your answer to the nearest tenth.

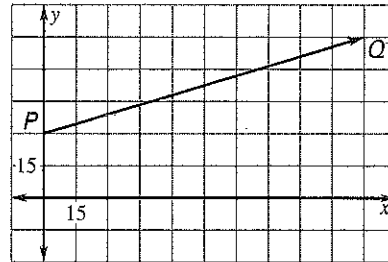


The given vector represents the velocity of a ship at sea. Find the ship's speed, rounded to the nearest mile per hour. Then find the direction the ship is traveling relative to the given direction.

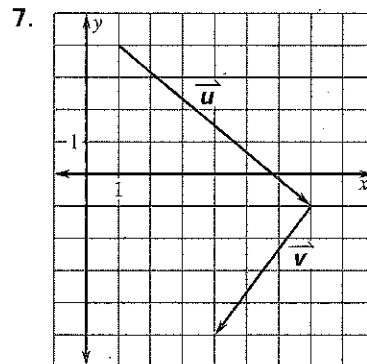
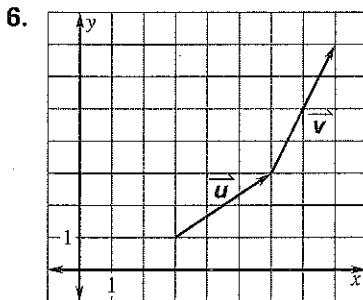
4. Find direction relative to west.



5. Find direction relative to east.



Copy the vectors  $\vec{u}$  and  $\vec{v}$ . Write the component form of each vector. Then find the sum  $\vec{u} + \vec{v}$  and draw the vector  $\vec{u} + \vec{v}$ .



Let  $\vec{u} = \langle 2, -3 \rangle$ ,  $\vec{v} = \langle 3, -2 \rangle$ , and  $\vec{z} = \langle 4, -1 \rangle$ . Find the given sum.

8.  $\vec{u} + \vec{v}$

9.  $\vec{v} + \vec{z}$

10.  $\vec{z} + \vec{u}$