

5 (a) See *Figure 5*.

(b) $\mathbf{v} = \langle 0, -20 \rangle$

(c) $2\mathbf{v} = 2\langle 0, -20 \rangle = \langle 0, -40 \rangle$; this represents a 40 mph north wind.

$-\frac{1}{2}\mathbf{v} = -\frac{1}{2}\langle 0, -20 \rangle = \langle 0, 10 \rangle$; this represents a 10 mph south wind.

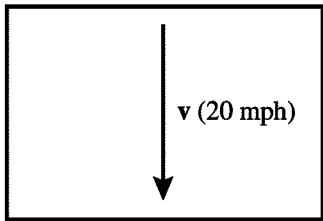


Figure 5