Closing Tue, Jan. 12: 12.1, 12.2, 12.3
Closing Thu, Jan. 14: 12.4(1), 12.4(2)

Read weekly email and newsletter. Read through 12.5 by Monday
12.3 Dot Products

If $\mathbf{a}=\left\langle a_{1}, a_{2}, a_{3}\right\rangle$ and $\mathbf{b}=\left\langle b_{1}, b_{2}, b_{3}\right\rangle$

$$
\mathbf{a} \cdot \mathbf{b}=a_{1} b_{1}+a_{2} b_{2}+a_{3} b_{3}
$$

Today, we will discuss this operation and related facts.

