

1-4) Consider the following four vectors:

A has a magnitude of 8m and points along the $-y$ axis.

B has a magnitude of 15m and lies 30° CW of the $+y$ axis (i.e., in QI)

C has a magnitude of 12m and is 25° below the $-x$ axis.

D has a magnitude of 10m and lies 53° CCW of the $+y$ axis.

(These are the same vectors as in Problem 1-2.)

Find the following dot products:

a) $\mathbf{A} \cdot \mathbf{B}$

b) $\mathbf{A} \cdot \mathbf{C}$

c) $\mathbf{A} \cdot \mathbf{D}$

d) $\mathbf{B} \cdot \mathbf{C}$

e) $\mathbf{B} \cdot \mathbf{D}$

f) $\mathbf{C} \cdot \mathbf{D}$

HINT: If you did Problem 1-2, you have two options for finding these dot products.