

Magnitudes of Scalar Multiples - Guided Lesson

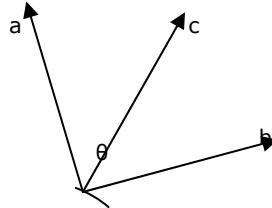
Complete the following problems:

1) If $a = 2i$, $b = 4j$ and $c = i+j$, the angle between a and b is 90° and it is given that c bisects a and b then find the following to two decimal places:

(a) $a \cdot b$

(b) $a \cdot c$

(c) $b \cdot c$

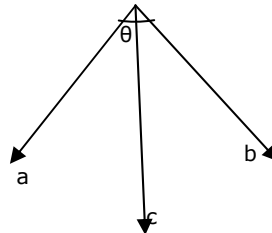


2) If $a = 9i+5j$, $b = 12i+4j$ and $c = i+j$, the angle between a and b is 80° and it is given that c bisects a and b then find the following to two decimal places:

(a) $a \cdot b$

(b) $a \cdot c$

(c) $b \cdot c$



3) If $a = 5i+3j$, $b = 3i+10j$ and $c = i+j$, the angle between a and b is 70° and it is given that c bisects a and b then find the following to two decimal places:

(a) $a \cdot b$

(b) $a \cdot c$

(c) $b \cdot c$

