Answer on Question #42412 – Math - Analytic Geometry

Evaluate the expression:

v   w

Given the vectors:

r = <8, 8, -6>; v = <3, -8, -3>; w = <-4, -2, -6>

what can i do in this case

Solution:
To find $v \cdot w$ means to find the dot product:
$$v = < 3, -8, -3 >$$
$$w = < -4, -2, -6 >$$
$$v \cdot w = 3 \cdot (-4) + (-8) \cdot (-2) + (-3) \cdot (-6) = 22$$
Answer: $v \cdot w = 22$