

King Saud university
Quiz No.1

Second semester, 1431H
Math 202

Time: 30 Minutes

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Question No.1

Given $a = \langle 2, 5, -3 \rangle$ and $b = \langle 3, -4, 2 \rangle$.

1. Find $\|a\|$, the unite vector u that has the same direction as a , and express $3a - 2b$ as a linear combination of i, j and k .
2. Find the angle between the vectors a and b .
3. Find $\text{comp}_b a$

Question No.2

Given $a = 2i - j + 4k$, $b = -6i + 3j - 12k$.

1. Find $a \times b$.
2. Show that a and b are parallel.

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Good luck