1. Normalize V = (2, 4, 7, 9) Answer – 12.25

||V||= SQRT of w2 + x2+ y2+ z2

4 + 16 + 49 + 81 = 150

SQRT of 150 = 12.25

1. Given the vectors **A**= (2, 3, 4) and **B** = (5, 6, 7), what is the value of **A + B**?  
   ⃑𝐴+⃑𝐵=(𝑥+𝑥,𝑦+𝑦,𝑧+𝑧)  
   ⃑𝐴+⃑𝐵 = (2 +5, 3 + 6, 4 + 7)   
   ⃑𝐴+⃑𝐵 = (7, 9, 11)
2. Given the vectors  **A**= (2, 3, 4) and **B** = (5, 6, 7), what is the value of **A**- **B**?  
   ⃑𝐴−⃑𝐵=(𝑥−𝑥,𝑦−𝑦,𝑧−𝑧)  
   ⃑𝐴−⃑𝐵 = (2 – 5, 3 – 6, 4 -7)  
   ⃑𝐴−⃑𝐵 = (-3, -3, -3)