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[MTH103] One of the following quantities has magnitude and direction  
Displacement

[MTH103] Give the simplified form of equation of line passing through the points (3, 4) and (6, 8).  
 $\sqrt{3y=4x}$

[MTH103] The scalar product of two vectors a and b can defined as?  
 $\sqrt{a \cdot b = |a||b|\cos\theta}$

[MTH103] If  $\sqrt{A=2i-3j-k}$  and  $\sqrt{B=i+4j-2k}$ , determine the cross product  $\sqrt{A \times B}$   
 $\sqrt{(10i+3j+11k)}$

[MTH103] If force p of 40N acts in the direction due east and force q of 30N acts in the direction of due north, find the magnitude of the vector sum.  
50N

[MTH103] Given  $\sqrt{z=4+3i}$ , evaluate  $\sqrt{|z|}$   
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[MTH103] Two vectors moving in the same direction with equal magnitude is called?  
Equal vector

[MTH103] If  $\sqrt{a=3i-2j+k}$ ,  $\sqrt{b=2i-4j-3k}$  and  $\sqrt{c=-i+2j+2k}$ , find the magnitude of  
 $\sqrt{a+b+c}$   
 $\sqrt{4\sqrt{2}}$

[MTH103] If  $\sqrt{a=3i+4j-12k}$ ,  $\sqrt{b=i+11k}$  and  $\sqrt{c=i-j+k}$ . Find  $\sqrt{|a+b+c|}$   
 $\sqrt{\sqrt{35}}$

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