

MTH282

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1. A vector whose magnitude is unit is called _____

--->> unit vectors

equal vectors

like vectors

unlike vectors

2. Suppose that the coordinates of R be (3,4,12), what is $\|(\vec{OR})\|$?

$3i+4j+12k$

$3i-4j+12k$

--->> $3i+4j-12k$

$3i-4j-12k$

3. Suppose that the coordinates of R be (3,4,12), what are the direction cosines of $\|(\vec{OR})\|$?

--->> $(\frac{3}{13}, \frac{4}{13}, \frac{12}{13})$

$(\frac{3}{14}, \frac{4}{14}, \frac{12}{14})$

$(\frac{1}{13}, \frac{4}{13}, \frac{11}{13})$

$(\frac{1}{14}, \frac{4}{14}, \frac{11}{14})$

4. If $(\vec{\alpha}=3i-j+2k)$, $(\vec{\beta}=2i+j-k)$ and $(\vec{\gamma}=i-2j+2k)$ find $(\vec{\alpha} \times \vec{\beta}) \times \vec{\gamma}$.

$24i-7j-5k$

--->> $24i+7j-5k$

$-24i+7j-5k$

$24i+7j+5k$

5. _____ is any quantity that has both a magnitude and a direction.

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Scalar quantity

Vector and scalar quantity

None of the above

6. ____ vector with reference to a point X to origin O is the vector \vec{OX} used to specify the true position of X with respect to O.

Negative

--->> Location

Position

Positive

7. Given $\vec{A} = i + 2j + 3k$, $\vec{B} = 2i + j - k$, find $\vec{A} \times \vec{B}$.

-5i-7j-3k

5i+7j-3k

--->> -5i+7j-3k

-5i+7j+3k

8. $\vec{A} + \vec{B} = \vec{B} + \vec{A}$ is said to be ____ under addition of vectors.

--->> commutative

Abelian

distributive

associative

9. $|\vec{A}| \cdot |\vec{B}|$ is a ____

--->> vector

scalar

coplanar vectors

collinear vectors

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commutative

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