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vectors $r \_\{1\}=a \_\{1\} i-b \_\{2\} j+c \_\{3\} k, r \_\{2\}=a \_\{1\} i+b \_\{2\} j$ Âcâ, ${ }^{2}$ â€œ c_\{3\}k, is zero They are parallel
[MTH303] Which of the following is true of the projection of two vectors $X$ and $Y$ ? The projection of $X$ on $Y$ equal the scalar product of $X$. $y$ where $y$ is a unit vector in the direction of $Y$
[MTH303] Find the symmetric form of the equation of a straight line which passes through two given points $X$ and $Y$ having position vectors $x$ and $y$ with respect to an origin O .
$r=m x+n y /(m+n)$
[MTH303] Given a vector $X$ and scalars $s$ and $t$, then the law of vector algebra which states that $\mathrm{s}(\mathrm{tX})=(\mathrm{st}) \mathrm{X}$ is called
Associative Law for Multiplication
[MTH303] An aircraft travels 6km due south, then 10km in the direction 60 degree South of west. What is the resultant displacement
15.49 Km
[MTH303] An automobile travels 10 m northwest, then changing direction and travel 20 m 30 degree north of east and finally travels 35 m due south. What is the resultant displacement of the automobile?
$20.5 \mathrm{~m}, 60$ degree south of East.
[MTH303] Determine the value of $x$ so that $T=2 i+3 j+k$ and $S=4 i+x j-2 k$ are perpendicular
-2
[MTH303] Find $f$ at the point $(-2,3,5,-6)$ for a scalar field defined by $\backslash(f(r, s, t, q)=6 r s-10 q t-$ $50 \ln \left(\right.$ qr) $\left.-\log \_\{t s\} 1 \backslash\right)$
139.75
[MTH303] If $\backslash\left(r \_\{1\}=2 i-j+k \backslash\right), \backslash\left(r \_\{2\}=i+3 j-2 k \backslash\right), \backslash\left(r \_\{3\}=-2 i+j-3 k \backslash\right)$ and $\backslash\left(r \_\{4\}=3 i+\right.$ $2 j+5 k \backslash)$, find scalars $x, y, z$ such that $\backslash\left(r \_\{4\}\right.$ Ã¢â, $\left.\neg \hat{€} \nprec x r \_\{1\}=y r \_\{2\}+z r \_\{3\} \backslash\right)$ $-2,1,-3$
[MTH303] Which of the following pair comprises both scalar and vector quantity in that order?
Specific heat, displacement

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