Keview

· Vectors:

 $\vec{A} - \vec{B} = \vec{A} + (-\vec{B}) : \vec{A} = \vec{A} + (-\vec{B}) = \vec{A} + (-\vec{A}) =$

$$(\vec{A} + \vec{B}) + \vec{C} = \vec{A} + (\vec{B} + \vec{C})$$

$$\vec{A} + \vec{B} = \vec{B} + \vec{A}$$

$$\frac{\partial}{\partial x} = \frac{\partial}{\partial x} = A \sin \theta$$

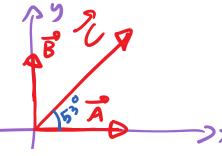
$$\frac{\partial}{\partial y} = A \sin \theta$$

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$$A = \sqrt{A_x^2 + A_y^2}$$

$$A=B=12$$

 $C=18$



$$B + A'$$

$$= 050 = \frac{Ax}{A}$$

$$\Rightarrow Ax = A = 050$$

$$\sin \theta = \frac{Ay}{A}$$

$$\Rightarrow Ay = A \sin \theta$$

$$\Rightarrow Ay = A \sin \theta$$

$$\tan \theta = \frac{Ay}{Ax}$$

$$Ay = 0 \begin{cases} A_{\lambda} = 12 \\ By = 12 \end{cases}$$

$$C_{x} = C_{cos} 53^{c}$$
= (18) (0.4)

$$|-an0| = Rx$$

$$= \frac{26.4}{22.8}$$

$$\Rightarrow 0 = tan'(1.15)$$

$$\Rightarrow 0 = 49.2^{\circ}$$

$$Rx = 22.8$$

Scalar (Dot) Product:
$$\overrightarrow{A} \cdot \overrightarrow{B} = A B = 0 \times 0$$

$$\overrightarrow{A} \cdot \overrightarrow{B} = A \times \widehat{i} + Ay\widehat{j} + A = \widehat{k}$$

$$\overrightarrow{B} = B \times \widehat{i} + By\widehat{j} + B = \widehat{k}$$

$$\overrightarrow{A} \cdot \overrightarrow{B} = A \times B \times + AyBy + A = B \times B \times + AyBy + AyB$$

A.B = Axbx Tivo

Equations of motion with constant acceleration.

1-D:
$$U_{xp} = U_{xi} + \alpha_{x}t$$

 $V_{xp} = X_{i} + U_{xi}t + \frac{1}{2}\alpha_{x}t^{2}$
 $U_{xp}^{2} = U_{xi}^{2} + 2\alpha_{x}(x_{f} - x_{i})$

$$\mathcal{I} = m\vec{a} \qquad \qquad \mathcal{I} = max$$

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