Writs $x_{t}$, yr $a=-9.8 \mathrm{~m} / \mathrm{s}^{2} \quad a=-32 \mathrm{fH} / \mathrm{s}^{2}$
Write

$$
\begin{aligned}
& \frac{\sin A}{a}=\frac{\sin B}{b} \\
& \begin{array}{l}
A S A \\
A A S
\end{array} \\
& \text { NSA =1 } \\
& \text { No } \triangle=\sin A=1 \div 26
\end{aligned}
$$

Pretend Given $B=48^{\circ}$ Calculated

180-5s
$C=$

$$
\begin{aligned}
a^{2} & =b^{2}+c^{2}-2 b c \cos A \\
& 5 S 5
\end{aligned}
$$

SAS-O Find art sid


Find smallest angle next!

1. $\frac{|V|=8}{\text { Find component form }<x, y>}$

$$
x=\mid N \cos \theta=8 \cos 60^{\circ}=
$$

$$
\begin{aligned}
& x=\mid v \cos \theta=8 \sin 60^{\circ}= \\
& y=|v| \sin \theta=
\end{aligned}
$$

Dot product

$$
\begin{aligned}
& \left\langle 3^{x},-4\right\rangle \cdot\langle 6,2\rangle \\
& (3 \cdot 6)+(-4 \cdot 2) \\
& 18+-8=10
\end{aligned}
$$

If $=0$, or thogonal

$$
\begin{aligned}
\text { Parallel } & =\text { fund slop } p e \frac{y}{x} \\
m & =-4 / 3 \quad m=2 / 6
\end{aligned}
$$

$m=-4 / 3 \quad m=2 / 6$
Not parallel


Incline Prob


Equilibrium


End to start


Start to End


Parametric $\Sigma_{q}$. - Projectile Motion

$$
\begin{aligned}
& x_{t}= \\
& y_{t}=
\end{aligned}
$$

