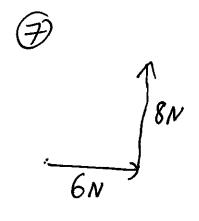
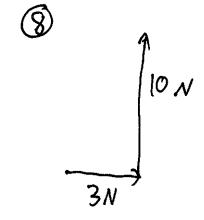
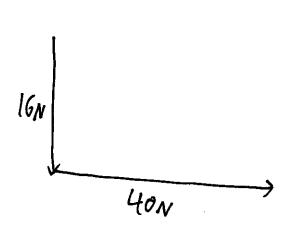
For Problems 7-10,
Write the vector in terms of
Magnitude and direction





9 1 48N 12N



Vector Form conversions A For problems 1-6,

Determine the components of each vector.
Use the following sign convention:

-

30 N 50°

② .

12N 7

3

15°/50N

69(4)

95

0

40°/

19N 150

300

Notation of component a form:

This rector has a x-component of +4.

How do you write this? There are several options!

-Mutrix Notation:
$$\nabla = [3, 4]$$
 or $\begin{bmatrix} 3\\ 4 \end{bmatrix}$

- Unit vector notation! V=31+43

The x-component appears in front of 1 and the y-component appears in front of 3.

- O rdered -pair notation \vec{v} = (3,4)

- Javascript Object Notation
$$\vec{v} = \{\vec{x}'' : 3, y'' : 43\}$$

Of these, in physics, the most commonly used is Unit vector notation.

Therefore, the write your answer that my 12=31+43

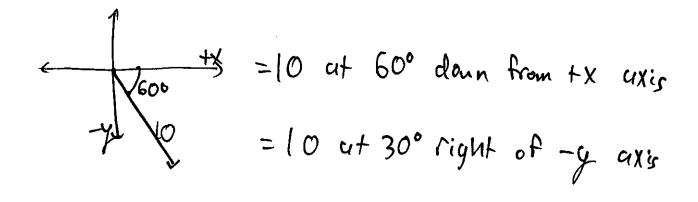
Notation for Mugnitude - Direction form of a vector:

-If the vector is kined lines up with an axis of or compass direction, what then write it:

- If not, we use the following terminology!

Note that existing

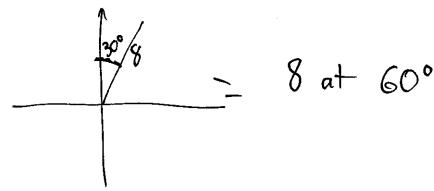
9 miles at 30° east of north = 9 miles at 60° north of east
10 miles at 40° north of west = 10 miles at 50° west of north



Polor coordinate form:

and give the direction of a angle from 0 to 3600, in which 0 is the +x axis and you proceed clockwise

Las in the unit circle in moth class.)



Notation for polar coordinates:

- Explicitly writing equation values:
$$\vec{V}$$
: $r=8$ $\theta=290^{\circ}$

- Javascript Object Notation!