Guided Practice: VP1.7.1 It a 4th verter, D is added to A+B+c, which heret in A+B+c+o=0, find: 2) magnitude of 3 2) Direction of D not angle measured contractockerine from the 3) store in which quidrat this angle les Gilen that Atistic displacment is 12.7m 12.7m + D = 0 D = -12.7m = 12.7m (displacement) In this lade, magnitude is coincidettally 12.7m, because of results in tetun to point of origin-Difection of 0 net +x-axis= 180°-510 = 129° from the aris Quadrant: within the -x axis and ty axis.

- 1) Calculate magnitude and distauson of 3. where $\vec{S} = \vec{A} - \vec{E} + \vec{c}$
- 2) State differsion of 5th not angle contar-dulinger from the axis and quadrage.

Asseming -B = - (B) wit component:

7-component = 01.40m + 33.68m # 17.80m = 77.28m.

Sp. = 1(84.73m)2 + (77.28m)2 - 114.68m

 $\frac{1}{4} = \frac{1}{100} \left(\frac{77.28 \text{ m}}{84.73 \text{ m}} \right)$

= 42.37° (contendedmine tem tx ans)

Quadrant: ty and tx

= A +B+ 2C

Tx = 38.37m - 46.36m + 0m = -7.99m

Ty = 61.40m - 3368m - 35.60m = -7.80m

TR = [(-7.99m)2 + (-7.88m)2

-11.22m.

 $\Phi = \tan^{4}\left(\frac{-1.88m}{-7.9qm}\right)$

- 135.40°

Quadray: ty and -x axis.

Then the party

Assure 2rd diplacement Hy tos Chin $Ts^{\circ} = cos^{-1}\left(\frac{Hx}{38on}\right) = sin^{-1}\left(\frac{Hy}{39on}\right)$ Hz = 38.0m (05(53°) = 22.87m. Hy = 38.0m Sin (55°) = 30.75m HR = 38.0m. Direction of H :s = 180-570 = 127° Quadray: ty axis, - xaxis (he tx axis).