图 图								
	Мо	Tu	We	Th	Fr	Sa	Su	

Memo No. ______

session 3: use of the Dot Product: Longths and Angles 225.1.6.

chak bourd:

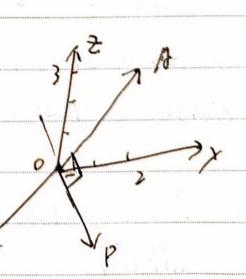
$$=\frac{1}{10} = \frac{50}{10}, 0.271.5$$

Ē/2,

$$3x + 2y + 3 + = 0$$

$$3x = \langle x, y, z \rangle$$

$$3x = \langle x,$$



Examples:

In Find angle bewteen
$$\overrightarrow{l}+\overrightarrow{l}+2\overrightarrow{k}$$
 and $2\overrightarrow{i}-\overrightarrow{l}+\overrightarrow{k}$

$$(\overrightarrow{l}+\overrightarrow{l}+2\overrightarrow{k})\cdot(2\overrightarrow{l}-\overrightarrow{l}+\overrightarrow{k}) = 2-l+2=3$$

$$= |\int \overline{b}|\cdot|\int \overline{b}|\cdot|\cos\theta = 6\cdot\cos\theta$$

$$= \cos\theta = \frac{1}{2}, \theta = \frac{1}{3}$$

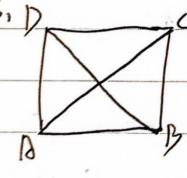
B2 67

they fall equal, what B, and

By's coordinates?

B,: (a, -az>, B.B, =0

 \vec{B}_1 : $\langle -\alpha_1, \alpha_2 \rangle$, $\vec{A} : \vec{B}_1 = 0$



show the diagonals of a parallelogram have equal longths if and only if It's

a reetangle

|AZ|2 = AZ ·AZ = (AB+BZ)2 = |AB|2+(BZ)2+LAB·BZ

1弱|2=(配-配)=1配|2+|配|2-2配配

wordy BB I Bi can make RC=BD, H RC=BD, H's a rectangle