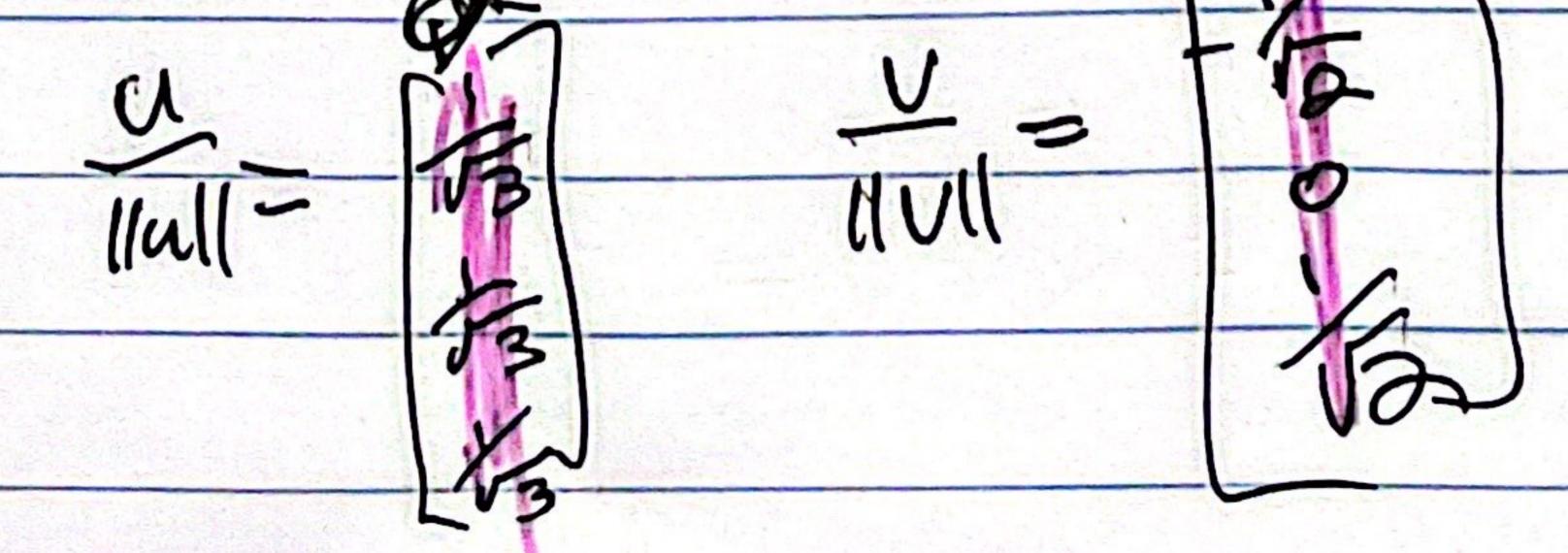
## 6.2 Homework

5. 
$$u_1 \cdot u_2 = 0$$
,  $u_1 \cdot u_3 = 0$ ,  $u_2 \cdot u_3 = 0$   
yes of the sect

(1)

$$\frac{y \cdot u}{u \cdot u} = \frac{10}{30} = \frac{1}{3} = \frac{1}{3}$$

$$\frac{1}{1} \cdot \hat{y} = \frac{1}{30} \cdot u = \frac{1}{3} \cdot \hat{y} = \frac{1}{35} = \frac{1}{35} \cdot \hat{y} = \frac{1}{35} = \frac{1}{35} \cdot \hat{y} = \frac{1}{35} \cdot$$



a. True => inner prol = 0 => or flow b. True cy=young C. talse, nomalizing olly affects magnifulas THM40 since col= orthog => must be inearly irdepended invertible S.T.6.2 set where all vectors are orthog. to eachothous