HW1 001021120 Zehua Wang

shown in files PP: eliminate t: y'= f'b x' + f' y - f'b x, y'= bx'-bx, tay,  $y' = \frac{f'b}{a} x' + \frac{f'y_2 - \frac{f'b}{az_2} x_2}{az_2 - \frac{f'b}{az_2} x_2}$   $|k_1 - k_2 = \frac{f'b}{a}$   $|k_1 - k_2 = \frac{f'b}{a}$  $\hat{y} = b\hat{x}' - bx_1 + ay_2$ 4=bz=b = parallel (e) Yes . Because both perspective and othographic projections are parallel If The perspective projection will be a reversal version of othographic projection othographic 6) shown in files

for perspective, whom >> 00. m >0 , the obstance between two will be small othographic, m=1 so the projections will be parallel d) Yes e) No when t changes from -10 -10 +100. At will be very large.

and orthographic projection is parallel while perspective is not parallel projection to the zotte = 0  $\lim_{t \to \infty} y' = \lim_{t \to \infty} \frac{b}{c} f' + f' \frac{y_0}{z_0 + t_0} = \frac{b}{c} f' = \frac{1}{2} \frac{(0.0)}{(0.1)}$ (0,-1) lun 2'= lm f'x> = 0 ling g'= lim b f'+ f' ys = b f' : (0,0)

