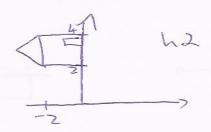
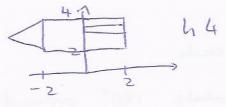
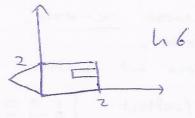


- 2 for wrong amount or direction.





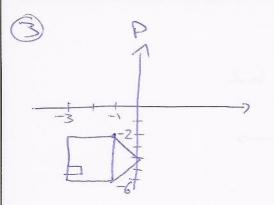


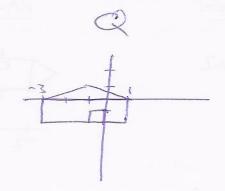
(2) glload Identity () or other correct gerbate (90, 0, 0, 1)

gl Translate (2,0,0) = gl Translate (2,-1,0)

draw tlanse()

other correct combinations.





4 mortes each.

(4) Either votate 180° around oc-axis or (equivalently) vertect across oc-axis.

Then shear.

Order does not mother.

6 works

6 morhs.

5 morts

5 marks

6) See notes.

marks.

-2 if correct but no poor explanation.

-5 close

-7 proof missing, right track

-9 no derivation

8) L= screen / display/NDC/avirdou

M= comera/viewing/eye

-1 for small evers.

(6) Incorrect values been in (9) carried through into

Let
$$P = \text{perspective matrix}$$

$$b = -5 \quad t = 5 \quad t - b = 10$$

$$= \begin{bmatrix} 2n & 0 & \text{rell} & 0 \\ \hline v - l & \text{vel} & 0 \\ \hline 0 & \frac{2n}{5-b} & \frac{t+b}{5-b} & 0 \\ \hline 0 & 0 & -\frac{(f+n)}{5-n} & -\frac{2fn}{5-n} \\ \hline 0 & 0 & \frac{f-n}{5-n} & \frac{f-n}{5-n} \end{bmatrix}$$

$$V'' = PV' = \begin{bmatrix} 4/10 & 0 & 0 & 0 & 0 \\ 0 & 0 & \frac{12}{5} & \frac{2}{5} & 0 \\ 0 & 0 & -\frac{12}{5} & \frac{2}{5} & 0 \end{bmatrix} \begin{bmatrix} -1 \\ -1 \\ -1 \\ 1 \end{bmatrix} = \begin{bmatrix} -0.4 \\ -0.4 \\ 1 \end{bmatrix}$$

Romogenice

$$\begin{bmatrix} -0.1 \\ 0 \\ 0 \end{bmatrix}$$

homogenice

$$\begin{bmatrix} -0.1 \\ -0.1 \\ 0 \end{bmatrix}$$

homogenise [-0.1]