



HEIMADÆMMI 4

1) a) SÍÐANUM MARGFELD: FYLIYANNA:

$$S(s_x, s_y) \cdot R(\theta) = \begin{bmatrix} s_x \cos \theta & -s_x \sin \theta & 0 \\ s_y \sin \theta & s_y \cos \theta & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$R(\theta) \cdot S(s_x, s_y) = \begin{bmatrix} s_x \cos \theta & -s_y \sin \theta & 0 \\ s_x \sin \theta & s_y \cos \theta & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

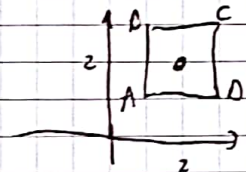
ÞETTA ER EINS ÞEGAR $s_x \sin \theta = s_y \sin \theta$

ÞÁÁ GETUR GERST Á TVO VEGU:

i) EF $\theta = 0$ ÞÁ ER $\sin \theta = 0$ OG $s_x \sin \theta = s_y \sin \theta = 0$

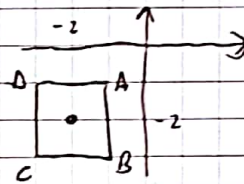
ii) EF $s_x = s_y$

b) TÍVINGUR HLUTUR MEÐ MIÐJU, (2,2)
T.O. FERMINGUR

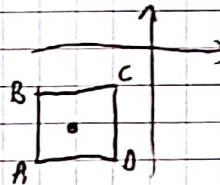


HÖFU 3 VARPANIR:

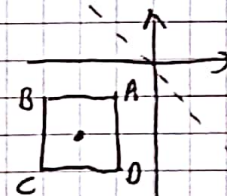
i) SNÚA um 180° :



ii) HLIARA um (-4, -4):



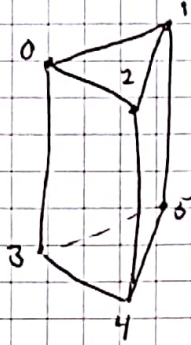
iii) SPEGLA um $x = -y$ ÁSTIÐ:



SÍÁMUM ÁS ENOJN AF VÖRÐUNUM ER EINS. ÞÆR VARPA FERMINGUM Á 3 ÖLIKA VEGU.



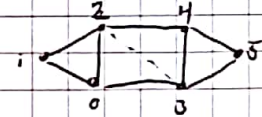
2) TEIÐJA PRISMI SEM TÖ TRÍANGLA-STRÍP BÚTA



HÆGT AA GERA Á ÝMISA VEGUM. HÉR ER EINN VEGUR.

- ÞÁÐIR ENCAR (TOPP OG BOTN) OG EINN HVAÐI:

1, 0, 2, 3, 4, 5



- HINNAR TVÆR HVAÐARNAR:

2, 4, 5, 1, 3, 0

