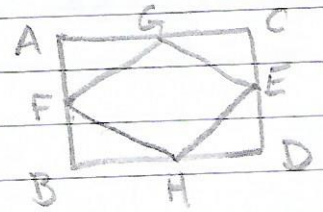
__/__/__

S T Q Q S S D

Prova 4 GAN.

1)



$E = \frac{1}{2}(C+D)$

$F = \frac{1}{2}(A+B)$

$G = \frac{1}{2}(A+C)$

$H = \frac{1}{2}(B+D)$

para ser um paralelogramo:

$\vec{EG} = \vec{HF}$

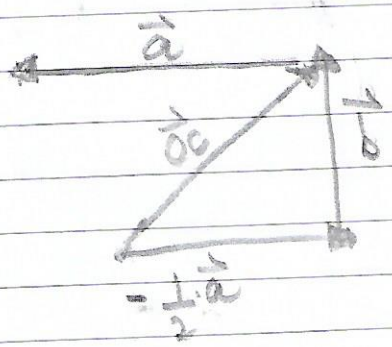
$G - E = H - F$

$\frac{1}{2}(A+C) - \frac{1}{2}(C+D) = \frac{1}{2}(A+B) - \frac{1}{2}(B+D)$

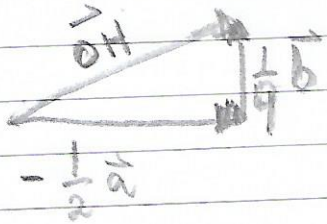
$A - D = A - D$

$\therefore$ FGHE é um paralelogramo.

2)



$\vec{OC} = \vec{b} - \frac{1}{2}\vec{a}$



$\vec{OH} = \frac{1}{4}\vec{b} - \frac{1}{2}\vec{a}$