3 Ponts

$$P(2,0,-1)$$
 $Q(-1,3,4)$ $R(3,-1,2)$

(a)
$$\overline{RR} = 0 - R = (-1 - 3 - 3 - (-1), 4 - 2)$$

 $\overline{RR} = (-4, 4, 2)$
 $\overline{RR} = (-4, 4, 2)$

b)
$$A = \frac{1}{2} \| v \times w \|$$
 $PQ = S - P - (-1 - 2 - 3 - 0 + - 1) = -23,35$
 $PR = 21 - 1.37$
 $= \begin{bmatrix} 1 & 3 & 5 \\ -3 & 3 & 5 \end{bmatrix} = 2 \begin{bmatrix} 1 & 3 & 5 \\ -1 & 3 & 5 \end{bmatrix}$

$$z = 2 + i$$
 $y = 0 - t$
 $z = -1 + 3t$