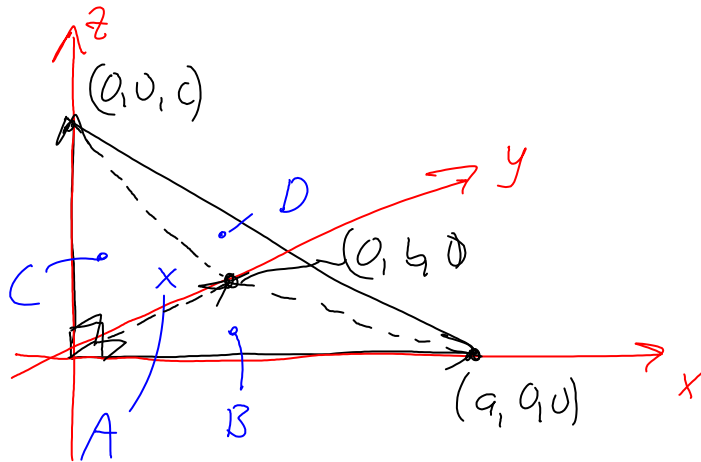


Figur, tetraeder i koordinatsystem.



"Triangel D" spåms av vektorerna

$$(-a, 0, c) \text{ och } (-a, b, 0)$$

Dess area:

$$(-a, 0, c) \times (-a, b, 0) = (-bc, ac, -ab)$$

$$\text{area}^2 = D^2 = \frac{(bc)^2 + (ac)^2 + (ab)^2}{2^2} =$$

$$= \left(\frac{bc}{2}\right)^2 + \left(\frac{ac}{2}\right)^2 + \left(\frac{ab}{2}\right)^2 = C^2 + A^2 + B^2$$