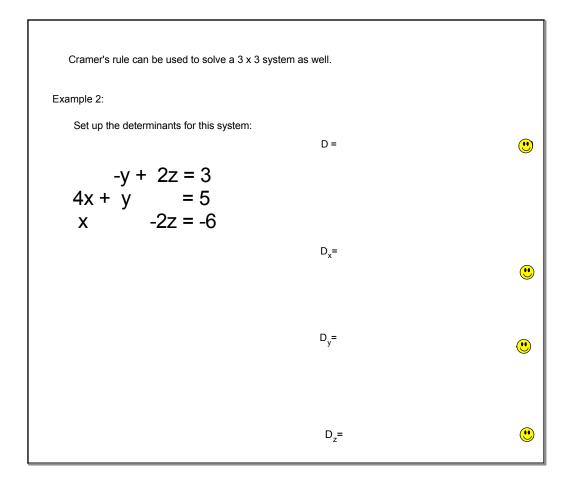


Example 1 Use Cramer's rule to solve this :



Area of a triangle with vertices  $(x^{\phantom{\dagger}}_1,y^{\phantom{\dagger}}_1)$  ,  $(x^{\phantom{\dagger}}_2,y^{\phantom{\dagger}}_2)$  ,  $(x^{\phantom{\dagger}}_3,y^{\phantom{\dagger}}_3)$ 

Test for collinearity

Example 2: Determine if these three points are collinear. If not, then find the area of the triangle which has them as the three vertices.

A (-3,4) B (2,0) C (5, -1)

## **Applications of Matrices**

