

## Chapter 9 / Example 43

# Intersecting planes

Find the point of intersection between the planes

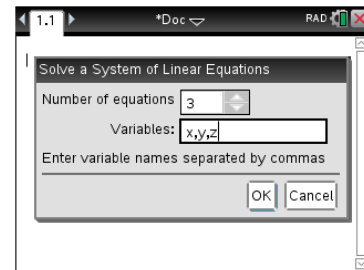
$$\pi_1: x + 2y - z = 4, \pi_2: 2x - 3y + z = -3 \text{ and } \pi_3: 3x + y - 4z = 1.$$

Open a new document and add a Calculator page.

Press **menu** 3:Algebra | 2:Solve System of Linear Equations...

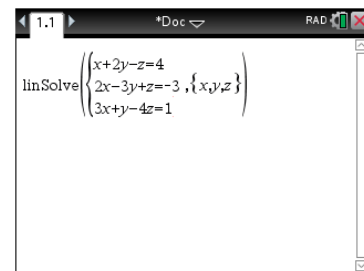
Select 3 equations.

Press **enter**.



Solve the equations 
$$\begin{cases} x + 2y - z = 4 \\ 2x - 3y + z = -3 \\ 3x + y - 4z = 1 \end{cases}$$

Type the equations and press **enter**.



The calculator shows the solution which is the point  $(1, 2, 1)$ .

