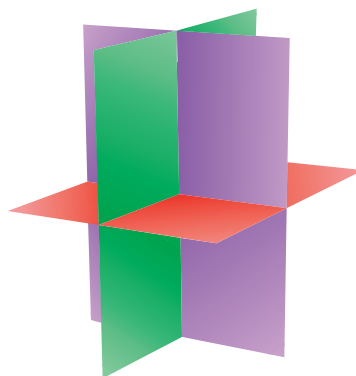**EXAMPLE**   Three equations in three variables. Each equation determines a plane in space.

i) The planes intersect in one point:

ii) The planes intersect in a line:

iii) There is no point common to all three planes:

1.1.03