

1.  $(x, y), (x, z), (y, x), (y, z), (z, x), (z, y)$
2. Solutions  $(x, y, z)$  are  $(0, 2, 1), (1, 2, 0), (2, 1, 0)$
3.  $Dx = \{0, 2\}, Dy = \{1\}, Dz = \{0\}$