

Worksheet 4 - Intersecting Planes

- The angle between two planes in space is defined to be the angle between their normal vectors.
- Two planes are parallel if and only if their normal vectors are parallel.
- Two non-parallel planes intersect in a line.

Example: Consider the planes:

$$3x - 6y - 2z = 15,$$

and:

$$2x + y - 2z = 5.$$

- a). Find the angle between the planes.
- b). Are the two planes parallel? If not, find parametric equations for the line of intersection of the two planes.