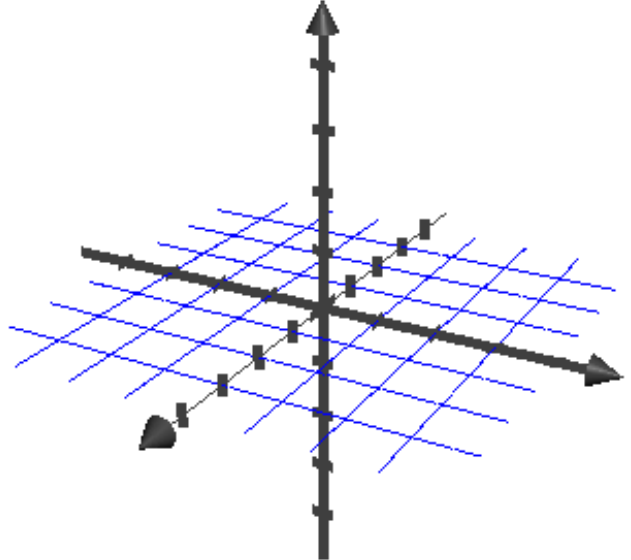


Planes in 3D

1. Consider the plane P defined by $3x - 2y + 2z = 6$.

(a) Find where P intersects the xy plane.

(b) Sketch the graph of P .



2. Where does the line $x = y - 1 = 2z$ intersect the plane $3x - 2y + 2z = 6$?

3. Find the distance from the origin to the plane $3x - 2y + 2z = 6$.

4. Consider the planes $3x - 2y + z = 1$ and $2x + y - 3z = 3$

(a) Find the angle between the two planes.

(b) Find the line of intersection between the two planes.