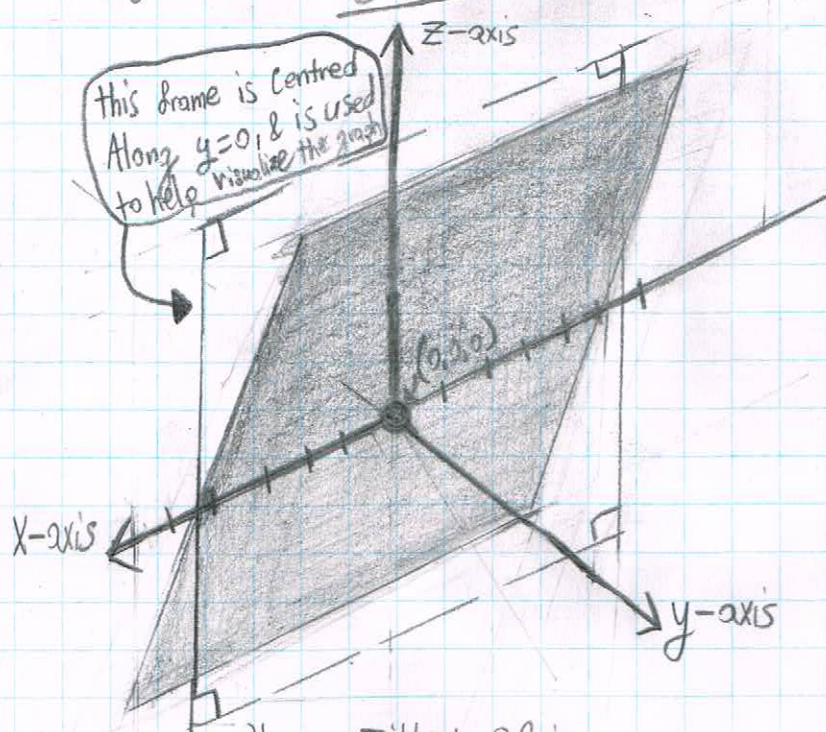


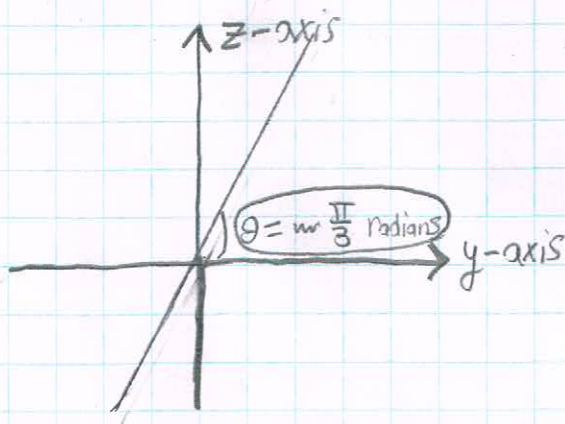
b) $2y - z = 0$

Sketch:



Shape: Tilted Plain

(Side view: facing the x-axis)



Note:

this line can be seen as: $2x=y$ on a 2D graph (i.e. when the 3D version is viewed down the y-axis).

z-intercept:

When $y=0$:
 $z=0$

y-intercept:

When $z=0$:
 $y=0$

x-axis:

x is not in equation, thus $x \in \mathbb{R}$

Shape:

- The equation is of the form:

$$\frac{2y}{a} - \frac{z}{a} = 0, \text{ thus the shape}$$

is a tilted plain which travels through the y & z dimensions, & is free along the x dimension.

- Thus, the plain can be seen as infinitely many lines parallel along x-axis traveling through the z & y axes.

- The plain is tilted towards the z-axis, which is hard to see in the main sketch.

• The plain itself is tilted $\approx \frac{1}{3}$ towards the z-axis & $\approx \frac{2}{3}$ towards the y-axis!