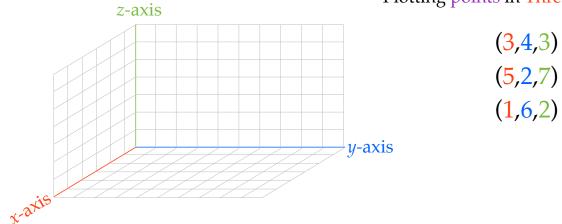
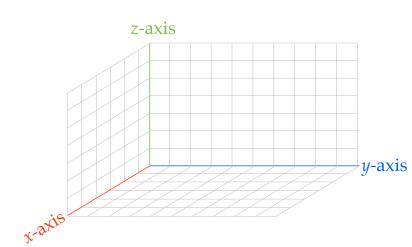


Three-Dimensional Space

Plotting points in Three-Dimensions



Graphing Equations in Three Dimensions



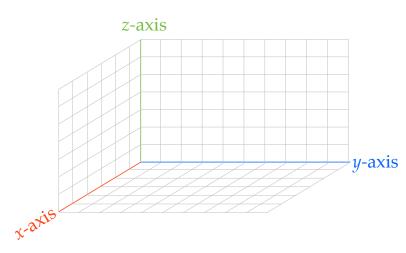
$$3x + 4y + 3z = 12$$

x-intercept: set y = 0 and z = 0

y-intercept: set x = 0 and z = 0

z-intercept: set x = 0 and y = 0

Graphing Equations in Three Dimensions



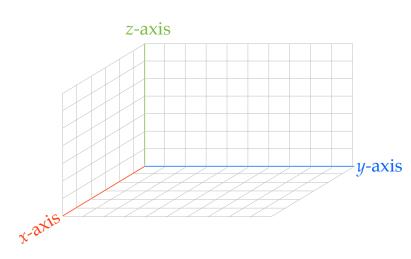
$$4x + 3y + 8z = 24$$

x-intercept: set y = 0 and z = 0

y-intercept: set x = 0 and z = 0

z-intercept: set x = 0 and y = 0

Graphing Equations in Three Dimensions



$$18x + 4y + 6z = 36$$

x-intercept: set y = 0 and z = 0

y-intercept: set x = 0 and z = 0

z-intercept: set x = 0 and y = 0

Plotting points in the Three-Dimensional Space

(x,y,z)

x units parallel to x-axisy units parallel to y-axisz units parallel to z-axis

Graphing Equations in Three Dimensions

x-intercept: set
$$y = 0$$
 and $z = 0$
 $(x,0,0)$
y-intercept: set $x = 0$ and $z = 0$
 $(0,y,0)$
z-intercept: set $x = 0$ and $y = 0$
 $(0,0,z)$