

ASSIGNMENT

Read 12.5

- p. 702 3, 13, 19, 27, 33, 39, 47, 51

TAKE-AWAYS

After reading this section, attending this class and doing this homework you should

- know the equation of the plane
- make analogies between what you see in the equation of a plane and what you see in the equation of a line in the xy -plane
- know how to find the equation of a plane given three points
- know how to plot planes by looking what happens when you fix x, y, z
- know what it means to find the trace of a plane on the xy, xz or yz planes which is very related to the previous item on this list
- know how to find if two planes intersect, are parallel or the same plane; and if they intersect you should know how to find the equation of the line they intersect in
- know how to find where a line and a plane intersect (if they do)