

THE DISTANCE BETWEEN THE POINT  $(x_0, y_0, z_0)$  AND  
THE PLANE  $Ax + By + Cz + d = 0$  IS

$$\frac{|Ax_0 + By_0 + Cz_0 + d|}{\sqrt{A^2 + B^2 + C^2}}$$

IF TWO PLANES ARE PARALLEL (IE. NORMAL VECTORS ARE PARALLEL)  
THE DISTANCE BETWEEN THEM CAN BE CALCULATED BY  
CHOOSING AN ARBITRARY POINT ON ONE OF THEM AND  
CALCULATING ITS DISTANCE TO THE OTHER PLANE.