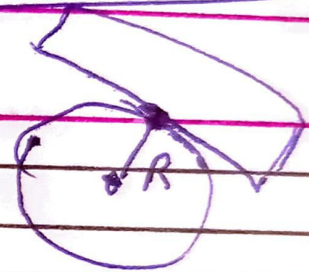


Result - Distance b/w (x_1, y_1, z_1) to plane $Ax + By + Cz + D = 0$

is
$$\frac{|Ax_1 + By_1 + Cz_1 + D|}{\sqrt{A^2 + B^2 + C^2}}$$

radius =
$$\frac{|1 \times 2 - 1 \times 2 + 1 \times 2 - 5|}{\sqrt{(2)^2 + (-2)^2 + (1)^2}}$$

=
$$\frac{|2 - 2 + 2 - 5|}{\sqrt{9}} = \frac{3}{3} = 1$$



Thus equation of sphere

=
$$(x-1)^2 + (y-1)^2 + (z-2)^2 = 1$$