

## Math 2415

### Concept Quiz Questions on 12.5 (Planes)

1. State a formula for the parametrization of the plane through the point  $\mathbf{p}$  and contains the vectors  $\mathbf{v}$  and  $\mathbf{w}$ .
2. Write down the equation of the plane through the point  $\mathbf{p}$  with normal vector  $\mathbf{n}$ . Your answer should be given in terms of the position vector  $\mathbf{r}$  of an arbitrary point in the plane.
3. Write down the equation of the plane through the point  $(x_0, y_0, z_0)$  with normal vector  $(a, b, c)$ . Your answer should be given in terms of an arbitrary point  $(x, y, z)$  in the plane.