

## Problem 1

Let  $P$  be the plane containing the points  $(1, 0, 0)$ ,  $(3, 2, 4)$  and  $(2, 1, 3)$ . Find a vector perpendicular to this plane.

## Problem 2

Let  $T$  be the triangle with vertices at the points  $(1, 0, 0)$ ,  $(3, 2, 4)$  and  $(2, 1, 3)$ . Find the area of  $T$ .