

Answer **all** the questions

1. (a) Figure 1 shows a square-based pyramid UVWXY, with the centre E of the square VWXY as the origin of the coordinate system. Write down the coordinates of the point W.

[1]

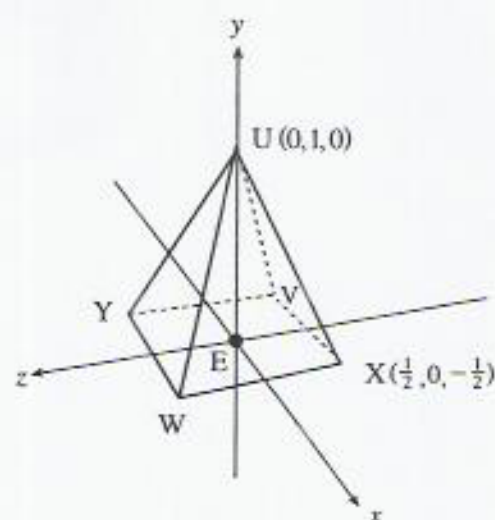


Figure 1

Figure 2 shows the same pyramid UVWXY after it has been translated so that the point U, which was $(0,1,0)$, now has coordinates $(0,0,-10)$.

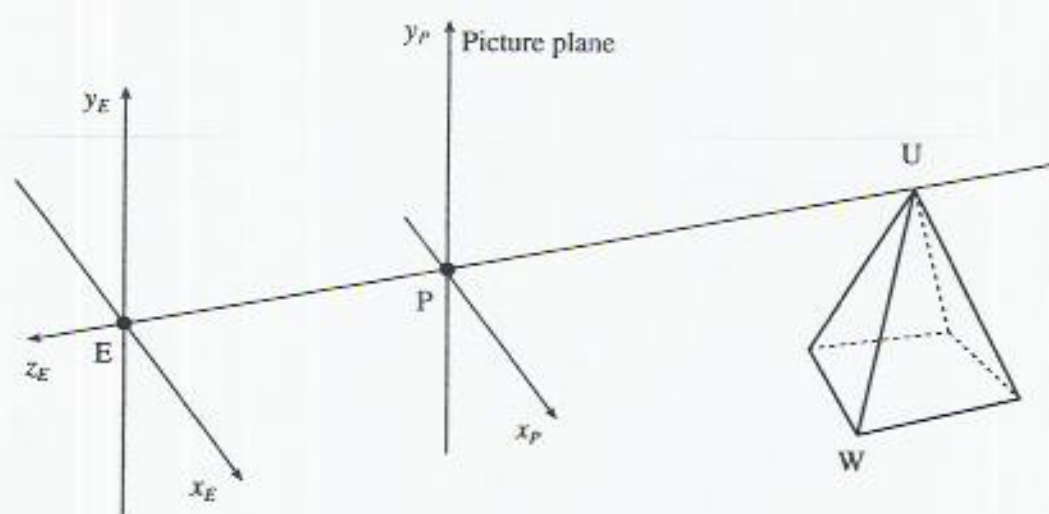


Figure 2