

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]

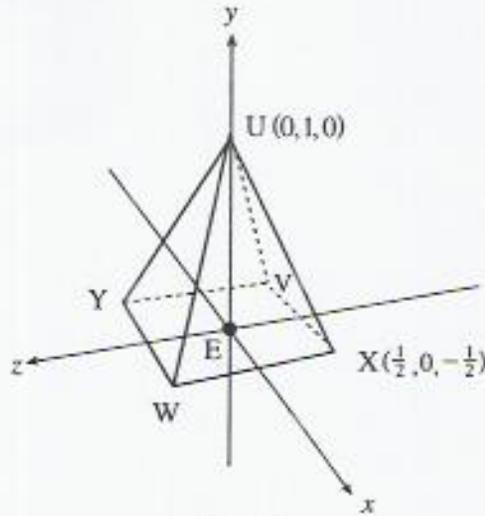


Figure 1

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 $(0, 0, -10)$.

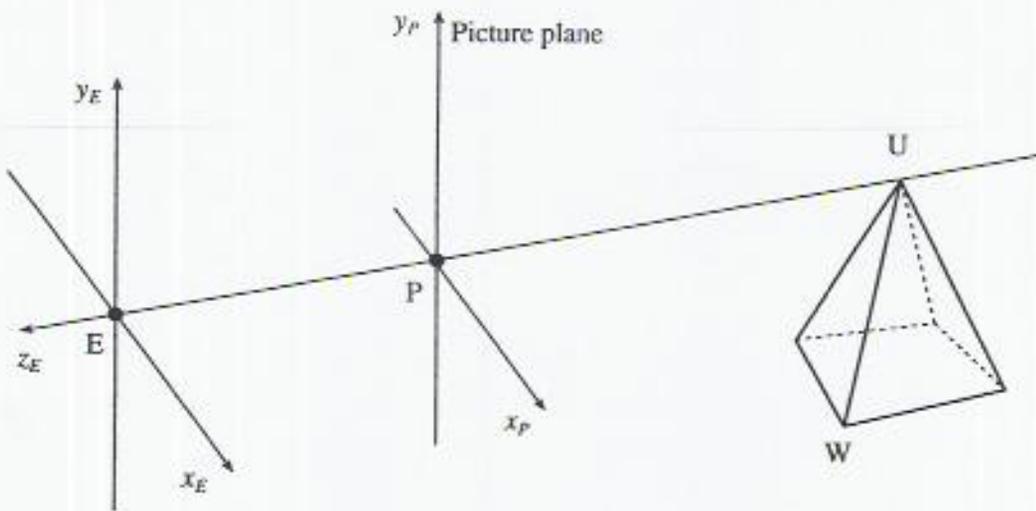


Figure 2