## 3D Trigonometry and Pythagoras (A)

Calculate the following using trigonometry and Pythagoras. Give answers to 2 decimal places.

## NOT TO

SCALE


| PQRSTUVW is a cube$P Q=5 \mathrm{~cm}$ | Calculate: |
| :---: | :---: |
|  | The size of angle RQS |
|  | The length of the line PR |
|  | The size of angle PRU |
|  | The length of the line US |
|  | The angle between PS and the base UWST |

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| LMNOPQ is a wedge | Calculate: |
| :---: | :---: |
| The base PQNO and the face LMPQ are rectangles | The size of angle LNM |
|  | The length of the line LN |
|  | The length of the line PO |
|  | The angle between LN and the base PQNO |
| $X$ is the midpoint of LO | The angle between XN and the base PQNO |



