3D Trigonometry and Pythagoras (A)

cazoom!

NOT TO

SCALE



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



PQRSTUVW is a cube PQ = 5 cm 5 cm P V V V V S	Calculate:
	The size of angle RQS
	The length of the line PR
	The size of angle PRU
Ť	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
М	
	The length of the line LN
	The length of the line PO
o 8 cm	The angle between LN and the base PQNO
X is the midpoint of LO	The angle between XN and the base PQNO

ABCDE is a square-based pyramid	Calculate:
E is directly above the centre of the base	The size of angle DQP
EQ is the perpendicular height, 12 cm E	The length of EP
13 cm	The size of angle EPQ
A 7 cm B	The angle between EB and the base ABCD
P is the midpoint of DC	The surface area of the pyramid