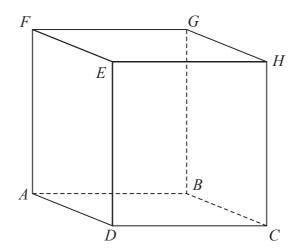
<u>Summer 2018 Paper 2 Q18</u>

1 ABCDEFGH is a cuboid.



$$AB = 7.3 \text{ cm}$$

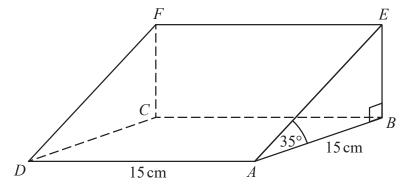
 $CH = 8.1 \text{ cm}$
Angle $BCA = 48^{\circ}$

Find the size of the angle between AH and the plane ABCD. Give your answer correct to 1 decimal place.

0

<u>Summer 2019 Paper 2 Q19</u>

2 The diagram shows a triangular prism.



The base, ABCD, of the prism is a square of side length 15 cm. Angle ABE and angle CBE are right angles. Angle $EAB = 35^{\circ}$

M is the point on DA such that

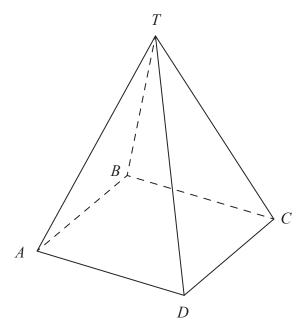
$$DM:MA = 2:3$$

Calculate the size of the angle between *EM* and the base of the prism. Give your answer correct to 1 decimal place.

.....

<u>Autumn 2018 Paper 3 Q12</u>

3 Here is a pyramid with a square base *ABCD*.



 $AB = 5 \,\mathrm{m}$

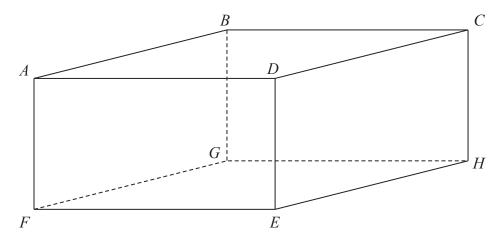
The vertex T is 12 m vertically above the midpoint of AC.

Calculate the size of angle *TAC*.

0

Autumn 2022 Paper 2 Q20

4 *ABCDEFGH* is a cuboid.



$$AD = 9 \text{ cm}$$

 $FD = 13 \text{ cm}$
Angle $GHF = 49^{\circ}$

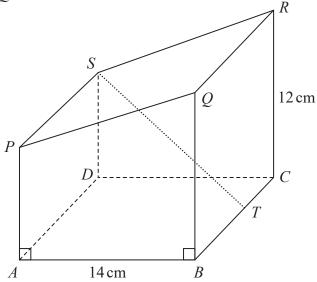
Work out the size of angle FAH.

Give your answer correct to the nearest degree.

.....

Summer 2022 Paper 3 Q18

5 Here is a prism ABCDSPQR.



The base ABCD of the prism is a square of side 14 cm T is the point on BC such that BT:TC=4:3

The cross section of the prism is in the shape of a trapezium of area $147 \,\mathrm{cm}^2$ $CR = 12 \,\mathrm{cm}$

Find the size of the angle between the line ST and the base ABCD. Give your answer correct to 1 decimal place.

(Total for Question 5 is 5 marks)