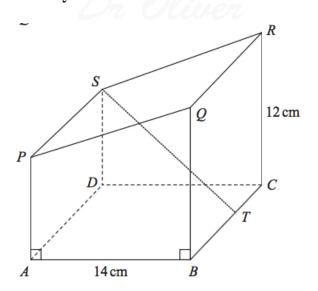
Dr Oliver Mathematics Worked Examples Angle 1

(5)

From: Edexcel GCSE Mathematics June 2022 Paper 3H (Calculator)

1. 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 cm². CR = 12 cm.

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

