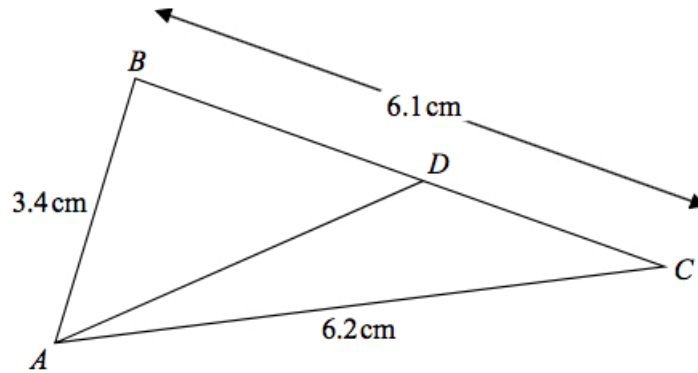


Dr Oliver Mathematics  
Worked Examples  
Super Trigonometry 2

From: Edexcel 2019 November Paper 3H (Calculator)

1. The diagram shows triangle  $ABC$ .

(5)



$$AB = 3.4 \text{ cm.}$$

$$AC = 6.2 \text{ cm.}$$

$$BC = 6.1 \text{ cm.}$$

$D$  is the point on  $BC$  such that

$$\text{size of angle } DAC = \frac{2}{5} \times \text{size of angle } BCA.$$

Calculate the length  $DC$ .

Give your answer correct to 3 significant figures.

You must show all your working.