

6th October

Corbettmaths

Simplify

$$\frac{\sqrt{48} + \sqrt{75}}{\sqrt{3}}$$

$$125^{-\frac{2}{3}}$$

Triangle BCD are such that $BC = 3.9\text{cm}$,
 $CD = 7.2\text{cm}$ and $\angle BDC = 30^\circ$

Work out the possible values of the
largest angle.

The first five terms of a linear sequence
are 5, 11, 17, 23, 29 ...

(a) Find the n th term of the sequence

A new sequence is generated by
squaring each term of the linear
sequence and then adding 5.

(b) Prove that all terms in the new
sequence are divisible by 6.