

19th September

Corbettmaths

Solve the simultaneous equations

$$2x - y = 7$$

$$xy = 15$$

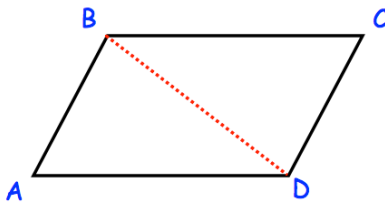
Here are the first 5 terms of a quadratic sequence

9 17 29 45 65

Find an expression, in terms of n , for the n th term of this quadratic sequence.

Solve to one decimal place

$$\frac{x - 4}{x + 5} - \frac{3x - 2}{x + 1} = 1$$



ABCD is a parallelogram.
Prove that triangles ABD and BCD are congruent.

Show

$$\frac{1}{1 + \frac{1}{\sqrt{6}}}$$

can be written as

$$\frac{1}{5} (6 - \sqrt{6})$$