



Make  $a$  the subject

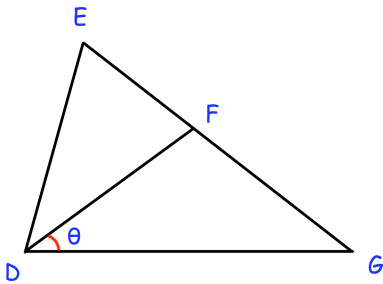
$$\frac{1}{a} - \frac{1}{b} = \frac{1}{c}$$

Solve  $x^2 - 4x - 11 = 0$   
using completing the square.

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.



$$DE = DF = FG$$

$$\angle FDG = \theta$$

Prove that  $\angle EDF = 180 - 4\theta$

The minimum point of a quadratic graph in the form  $y = x^2 + ax + b$  is  $(6, 3)$ .

Find  $a$  and  $b$ .