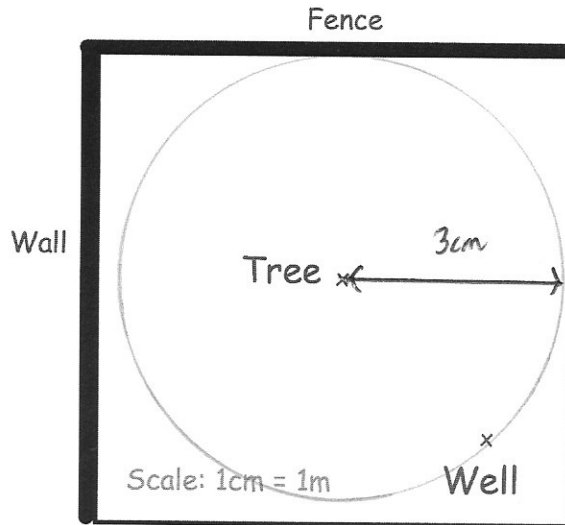




A gnome is 3 metres from the tree.  
Show the possible positions of the gnome.



Here are the first four terms of a Fibonacci sequence

$$2 \quad 8 \quad 10 \quad 18 \quad \dots$$

$$10 + 18 = 28$$

$$28 + 18 = 46$$

Write down the next two terms of the sequence.

The first three terms of a different Fibonacci sequence are

$$x \quad y \quad x + y$$

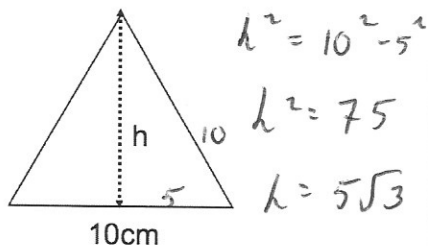
$$y + (x + y) = x + 2y$$

$$(x + 2y) + (x + y) = 2x + 3y$$

Find the 5th term of this sequence

$$2x + 3y$$

Below is an equilateral triangle



Calculate the area of the triangle.

$$\frac{1}{2} \times 10 \times 5\sqrt{3}$$

$$= 25\sqrt{3}$$

$$= 43.3 \text{ cm}^2$$