

**8th December**

Corbettmaths

An approximate solution to an equation is found by using this iterative process.

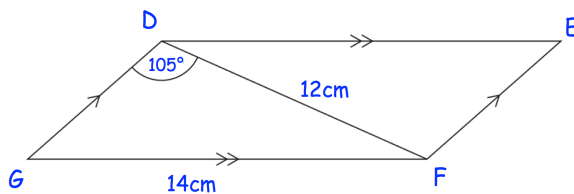
$$x_{n+1} = \frac{(x_n)^3 - 2}{5}$$

Given

$$x_1 = 2$$

Work out the solution to 3 decimal places

Solve the inequality  $x^2 - 4x < 0$



Calculate the area of parallelogram DEFG.

A bag contains  $9x$  green counters and  $2x$  pink counters.

The number of green counters is decreased by 40% and the number of pink counters is increased by 10%.

There are now 96 more green counters than pink counters.

Find  $x$

Find the coordinates where the line  $y = 12 - 2x$  and the curve  $y = x^2 - 4x + 9$  intersect.