



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

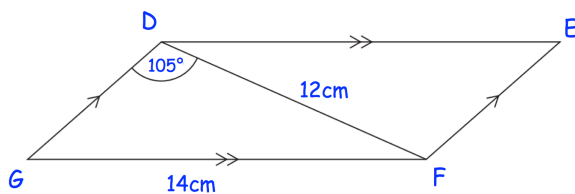
$$x_{n+1} = \frac{(x_n)^3 - 2}{5}$$

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.