9th November

Show $x^2 - 7x + 1 = 0$ can be rearranged to the form

$$x = 7 - \frac{1}{x}$$

Use the iteration

$$x_{n+1} = 7 - \frac{1}{x_n}$$

to find an approximation solution to

$$x^2 - 7x + 1 = 0$$

Start with

$$x_1 = 1$$

Find the coordinates of the point B

Find the coordinates of the point C

Shown is a circle, centre O.
A and B are points on the circle.
AC and BC are tangents.

Write $x^2 + 6x + 21$ in the form

$$(x + a)^2 + b$$

Find the turning point of the graph

$$y = x^2 + 6x + 21$$

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