https://youtu.be/QUucQKr8gvg SEQ 002 1 A quartic curve has equation  $y = x^4 - 4x^2 + 10$ .



(a) Work out  $\frac{dy}{dx}$ .

(2 marks)

(b) Find the equation of the tangent to the curve at the point where x = 2.

Give your answer in the form y = mx + c

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(4 marks)

**Calculations and Answer** 

**Green Pen Corrections and Notes** 

 ${\color{red} \overline{2}}$  Work out all the solutions for x and y if ,

 $\begin{pmatrix} x & -4 \\ 6 & y \end{pmatrix} \begin{pmatrix} x \\ -5 \end{pmatrix} = \begin{pmatrix} 9x \\ 9 \end{pmatrix}.$ 

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(5 marks)

**Green Pen Corrections and Notes** 

Calculations and Answer

Solve

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(6 marks)

**Calculations and Answer** 

**Green Pen Corrections and Notes**