A - Level Further Maths 15 Minute Boost 1

Define $cosh(x)$ in terms of exponential functions.	
How do you define the mean value of a function over the interval $[a, b]$.	
What is a suitable concluding statement for a proof by induction?	
State Viète's formulae for the cubic equation $ax^{3} + bx^{2} + cx + d = 0$	
What is the derivative of $y = arsinh(4x)$	
1 Find the Maclaurin series f use results given in the form	For the function $y = \ln (e + 3ex)$. You may sula book.



2 a) What is the matrix representing a reflection in the line y = 3x?

b) Find all invariant lines of the form y = mx + c for the matrix found in **(b)**?

