Differentiating x^n where *n* is a negative integer (9C)

Thursday, 8 March 2018 6:34 pm

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Work to be completed by the end of teaching:



Spoiler alert: Later on you will come across a method to do this called the **Quotient Rule**

Function Notation ...

With the function shown below ... we need to ensure that we understand the there will now be values of x for which this function is NOT defined.

$$f(x) = \frac{x^2 + 2x - 3}{x^3}$$

Hence we would need to write this function, if asked, as:

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$$2 \cdot R(503 => R, f(x) = x^2 + 2x - 3$$



 $x = \frac{1}{2}$