

# Article Title Here

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Decoding analyticity of rational functions .

Properties of derivative.

Complete the following sentences by indicating which property is used.

1. The function  $z$  is analytic, therefore  $z^2, z^3, \dots, z^n$  are all analytic because  
\_\_\_\_\_
2. As  $z, z^2, \dots, z^n$  are analytic at all points in complex  $z$  plane, all polynomials are analytic because  
\_\_\_\_\_
3. All rational functions of the form  $P(z)/Q(z)$  are analytic at all points except where \_\_\_\_\_  
because \_\_\_\_\_
4. Composite function, (function of a function)  $f(g(z))$  is analytic everywhere the following property holds.

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